GenCore version 5.1.6

OM protein : protein search, using sw model

Run on: July 7, 2003, 14:26:40 ; Search time 25 Seconds
(without alignments)
949.772 Million cell updates/sec

Title: US-09-822-295-2
Perfect score: 807
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Scoring table: Align
Gapop 60.0 , Gapext 60.0

Searched: 262574 seqs, 23422922 residues

Word size : 0

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_AA:*
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6: /cgn2_6/ptodata/1/iaa/backfiles2.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

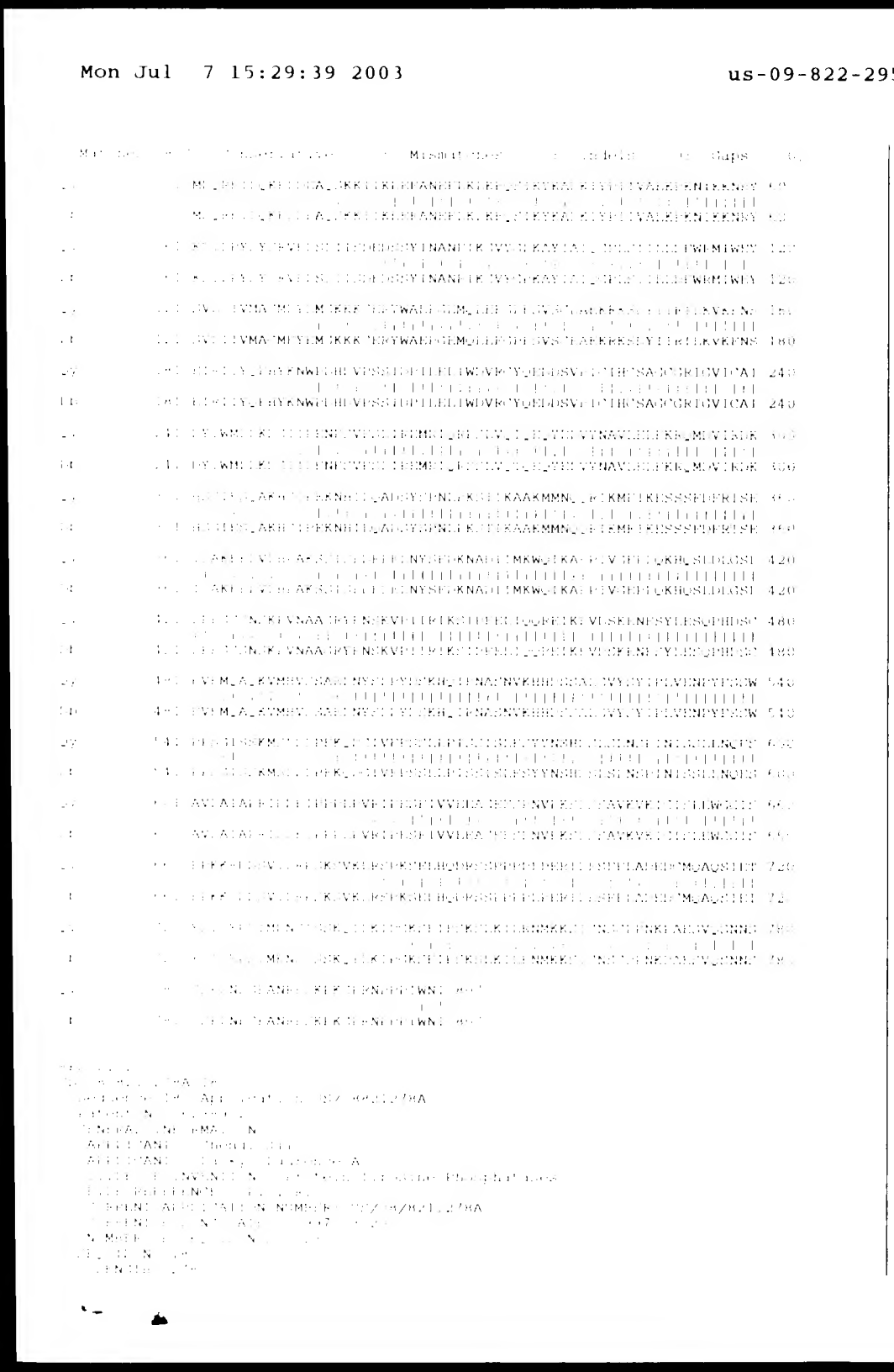
SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	807	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	82	4.5	278	4	US-08-821-278A-18	Sequence 18, Appl
3	82	4.5	802	4	US-09-081-345-18	Sequence 18, Appl
4	44	3.7	80	4	US-09-081-345-16	Sequence 16, Appl
5	29	3.6	80	4	US-09-081-345-17	Sequence 17, Appl
6	17	2.1	81	4	US-09-081-345-15	Sequence 15, Appl
7	16	2.0	253	2	US-08-685-992-20	Sequence 20, Appl
8	16	2.0	253	2	US-09-144-925-20	Sequence 20, Appl
9	16	2.0	272	4	US-08-821-278A-19	Sequence 19, Appl
10	13	1.6	19	3	US-08-938-830-21	Sequence 21, Appl
11	13	1.6	19	3	US-09-028-222-21	Sequence 21, Appl
12	13	1.6	19	4	US-08-821-278A-22	Sequence 22, Appl
13	11	1.4	453	3	US-08-951-260A-7	Sequence 7, Appli
14	11	1.4	453	4	US-08-821-278A-2	Sequence 2, Appli
15	10	1.2	245	1	US-08-015-985-8	Sequence 8, Appli
16	10	1.2	245	2	US-08-685-992-26	Sequence 26, Appl
17	10	1.2	245	2	US-09-144-925-26	Sequence 26, Appl
18	10	1.2	246	4	US-08-884-569A-4	Sequence 4, Appli
19	10	1.2	263	2	US-08-685-992-5	Sequence 5, Appli
20	10	1.2	263	2	US-09-144-925-5	Sequence 5, Appli
21	10	1.2	294	2	US-08-468-576B-18	Sequence 18, Appl
22	10	1.2	294	2	US-08-468-579B-18	Sequence 18, Appl
23	10	1.2	294	3	US-08-468-577B-18	Sequence 18, Appl
24	10	1.2	548	2	US-08-468-576B-19	Sequence 19, Appl
25	10	1.2	548	2	US-08-468-579B-19	Sequence 19, Appl
26	10	1.2	548	3	US-08-468-577B-19	Sequence 19, Appl
27	10	1.2	979	4	US-08-514-213A-2	Sequence 2, Appli
28	10	1.2	1442	1	US-08-015-986A-3	Sequence 3, Appli
29	10	1.2	1442	2	US-08-446-363-3	Sequence 3, Appli
30	10	1.2	1445	1	US-08-015-986A-2	Sequence 2, Appli
31	10	1.2	1445	2	US-08-446-363-2	Sequence 2, Appli
32	10	1.2	1501	2	US-08-447-464-3	Sequence 3, Appli
33	10	1.2	1501	2	US-08-716-679-3	Sequence 3, Appli
34	10	1.2	1911	1	US-08-348-006B-5	Sequence 5, Appli
35	10	1.2	1911	2	US-08-800-825A-5	Sequence 5, Appli
36	10	1.2	1911	4	US-09-158-657-5	Sequence 5, Appli
37	10	1.2	1911	5	PCT-US94-10166-5	Sequence 5, Appli
38	9	1.1	127	4	US-08-811-481-5	Sequence 5, Appli
39	9	1.1	155	4	US-08-821-278A-17	Sequence 17, Appl
40	9	1.1	246	4	US-08-884-569A-3	Sequence 3, Appli
41	9	1.1	250	2	US-08-685-992-7	Sequence 7, Appli
42	9	1.1	250	2	US-09-144-925-7	Sequence 7, Appli
43	9	1.1	289	1	US-08-046-210-13	Sequence 13, Appl
44	9	1.1	289	2	US-08-449-669-13	Sequence 13, Appl
45	9	1.1	298	4	US-08-511-481-4	Sequence 4, Appli

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PROTEIN RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DoS 5.3
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 244/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 807; DB 4; Length 807;
Best Local Similarity 100.0%; Pred. No. 0;



; TYPE: PRT
; ORGANISM: Homo Sapien
US 09 921 278A 18

Query Match 4.0%; Score 32; DB 4; Length 802;
Best Local Similarity 100.0%; Pred. No. 2.3e-23;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 89 PIKGVYGPKAYIAPQGPLSTIILIPFWRMIWEY 120
Db 89 PIKGVYGPKAYIAPQGPLSTIILIPFWRMIWEY 120

RESULT 3
US 09 081 345-18
; Sequence 18, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071 2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: PatentIn for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 244/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489 1600
; TELEFAX: (213) 955 0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US 09 081 345-18

Query Match 4.0%; Score 32; DB 4; Length 802;
Best Local Similarity 100.0%; Pred. No. 2.3e-23;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 89 PIKGVYGPKAYIAPQGPLSTIILIPFWRMIWEY 120
Db 89 PIKGVYGPKAYIAPQGPLSTIILIPFWRMIWEY 120

RESULT 4
US 09 081 345 16
; Sequence 16, Application US/09081345

; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 224/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-16

Query Match 3.7%; Score 30; DB 4; Length 30;
Best Local Similarity 100.0%; Pred. No. 2.7e-22;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 317 HTLQADSYSPNLPKSTFKAAKMMNQQPIK 345
||||||||||||||||||||||||||||||
Db 1 HTLQADSYSPNLPKSTFKAAKMMNQQPIK 29

RESULT 5
US-09-081-345-15
; Sequence 15, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 224/253

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;  TYPE: PRT
;  ORGANISM: Homo sapiens
US-08-821-278A-22

  Query Match                 1.6%;  Score 13;  DB 3;  Length 19;
  Best Local Similarity     100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
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Db            4 NRFSKPKGPRNPP 16


RESULT 11
US-08-822-295-21
; Sequence 21, Application US/08938830
; Patent No. 6004837
; GENERAL INFORMATION:
;     APPLICANT:  Lasky, Laurence A.
;     APPLICANT:  Dowbenko, Donald J.
;     TITLE OF INVENTION:  Tyrosine Phosphorylated Cleavage
;     TITLE OF INVENTION:  Furrow-Associated Proteins (PSTPIPS)
;     NUMBER OF SEQUENCES:  73
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Genentech, Inc.
;       STREET:  1 DNA Way
;       CITY:  South San Francisco
;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  94080
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  WinPatin (Genentech)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/938,830
;       FILING DATE:
;       CLASSIFICATION:  530
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/798419
;       FILING DATE:  07-FEB-1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Ginger R.
;       REGISTRATION NUMBER:  33,055
;       REFERENCE/DOCKET NUMBER:  P1066P2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  650/225 8216
;       TELEFAX:  650/952-9881
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  19 amino acids
;       TYPE:  Amino Acid
;       TOPOLOGY:  Linear
US-08-938-830-21

  Query Match                 1.6%;  Score 13;  DB 3;  Length 19;
  Best Local Similarity     100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
                |||||||||||||
Db            4 NRFSKPKGPRNPP 16


RESULT 12
US-08-822-295-22
; Sequence 22, Application US/08938830
; Patent No. 6004837
; GENERAL INFORMATION:
;     APPLICANT:  Lasky, Laurence A.
;     APPLICANT:  Dowbenko, Donald J.
;     TITLE OF INVENTION:  Tyrosine Phosphorylated Cleavage
;     TITLE OF INVENTION:  Furrow-Associated Proteins (PSTPIPS)
;     NUMBER OF SEQUENCES:  73
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Genentech, Inc.
;       STREET:  1 DNA Way
;       CITY:  South San Francisco
;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  94080
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  WinPatin (Genentech)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/08/938,830
;       FILING DATE:  06-Feb-1998
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/798419
;       FILING DATE:  07-FEB-1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Ginger R.
;       REGISTRATION NUMBER:  33,055
;       REFERENCE/DOCKET NUMBER:  P1066P2
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  650/225 8216
;       TELEFAX:  650/952-9881
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  19 amino acids
;       TYPE:  Amino Acid
;       TOPOLOGY:  Linear
US-09-020-222-21

  Query Match                 1.6%;  Score 13;  DB 3;  Length 19;
  Best Local Similarity     100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
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Db            4 NRFSKPKGPRNPP 16


RESULT 13
US-09-020-222-21
; Sequence 21, Application US/09020222
; Patent No. 6111074
; GENERAL INFORMATION:
;     APPLICANT:  Lasky, Laurence A.
;     TITLE OF INVENTION:  Tyrosine Phosphorylated Cleavage
;     TITLE OF INVENTION:  Furrow Associated Proteins (PSTPIPS)
;     NUMBER OF SEQUENCES:  27
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Genentech, Inc.
;       STREET:  1 DNA Way
;       CITY:  South San Francisco
;       STATE:  California
;       COUNTRY:  USA
;       ZIP:  94080
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  3.5 inch, 1.44 Mb floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  WinPatin (Genentech)
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/09/020,222
;       FILING DATE:  06-Feb-1998
;       CLASSIFICATION:
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  08/798419
;       FILING DATE:  02/07/1997
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Dreger, Ginger R.
;       REGISTRATION NUMBER:  33,055
;       REFERENCE/DOCKET NUMBER:  P1066r1
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  650/225 8216
;       TELEFAX:  650/952-9881
;   INFORMATION FOR SEQ ID NO:  21:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  19 amino acids
;       TYPE:  Amino Acid
;       TOPOLOGY:  Linear
US-09-020-222-21

  Query Match                 1.6%;  Score 13;  DB 4;  Length 19;
  Best Local Similarity     100.0%;  Pred. No. 1.1e-05;
  Matches   13;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          790 NRFSKPKGPRNPP 802
                |||||||||||||
Db            4 NRFSKPKGPRNPP 16


RESULT 13
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; ORGANISM: Mus Musculus
US-08-821-278A-2

Query Match 1.4%; Score 11; DB 4; Length 454;
Best Local Similarity 100.0%; Pred. No. 0.021;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 RCSAGCGRIGV 236
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Db 228 RCSAGCGRTGV 238

RESULT 15
US-08-015-985-8
; Sequence 8, Application US/08015985
; Patent No. 5538886
; GENERAL INFORMATION:
; APPLICANT: Schlessinger, Joseph
; APPLICANT: Sap, Jan M.
; TITLE OF INVENTION: NOVEL RECEPTOR TYPE PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASE ALPHA
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 AVENUE OF THE AMERICAS
; CITY: NEW YORK
; STATE: NEW YORK
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/015,985
; FILING DATE: 10-FEB-1994
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Corazzi, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7684 020
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 790 9090
; TELEFAX: (212) 869 9741/8864
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 245 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: unknown
; MOLECULE TYPE: protein
US-08-015-985-8

Query Match 1.2%; Score 10; DB 1; Length 245;
Best Local Similarity 100.0%; Pred. No. 9.1;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 97 KAYIAIQGPL 106
||||||||||
DB 46 KAYIAIQGPL 55

Search completed: July 7, 2003, 14:45:26
Job time : 26 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:43:11 ; Search time 29 Seconds
(without alignments)
8199.975 Million cell updates/sec

Title: US-09-822-295-2
Perfect score: 8 7
Sequence: 1 MSQAEILQKPLDEAQSEEIT.....FANSFSKFKQPFNPQFTWN1 807

Scoring table: BLOSU
Gapop 60.0 , Gapext 60.0

Searched: 44e863 seqs, 114992915 residues

Word size : 0

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2e000000

Post-processing: Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Prob. N.. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	807	100.0	807	10	US-09-822-295-2	Sequence 2, Appli
2	193	23.9	381	9	US-10-102-806-606	Sequence 606, App
3	82	4.0	802	10	US-09-822-295-18	Sequence 18, Appl
4	80	4.7	80	10	US-09-822-295-16	Sequence 16, Appl
5	29	4.0	80	10	US-09-822-295-17	Sequence 17, Appl
6	77	4.1	81	10	US-09-822-295-15	Sequence 15, Appl
7	76	4.3	812	10	US-09-788-626-21	Sequence 21, Appl
8	72	4.4	264	9	US-10-245-539-6	Sequence 6, Appli
9	71	4.4	448	9	US-10-087-993-32	Sequence 32, Appl
10	71	4.4	453	9	US-10-243-687-7	Sequence 7, Appli
11	71	4.4	458	9	US-10-087-993-36	Sequence 36, Appl
12	71	4.4	760	10	US-09-801-368-280	Sequence 280, App
13	71	4.4	264	10	US-09-788-626-27	Sequence 27, Appl
14	70	4.3	819	10	US-09-788-626-6	Sequence 6, Appli
15	70	4.3	442	10	US-09-925-300-950	Sequence 950, App
16	70	4.3	928	10	US-09-801-368-282	Sequence 282, App
17	70	4.3	479	9	US-10-038-686-3	Sequence 3, Appli
18	70	4.3	1502	9	US-09-808-602-54	Sequence 54, Appl
19	70	4.3	1502	9	US-09-800-198-44	Sequence 44, Appl
20	70	4.3	1948	9	US-09-808-602-55	Sequence 55, Appl
21	70	4.3	1948	9	US-09-800-198-45	Sequence 45, Appl
22	69	4.3	32	10	US-09-864-761-47x54	Sequence 47x54, A
23	69	4.3	127	10	US-09-876-527-5	Sequence 5, Appli
24	69	4.3	298	10	US-09-876-527-4	Sequence 4, Appli
25	69	4.3	306	10	US-09-788-626-8	Sequence 8, Appli
26	69	4.3	376	10	US-09-876-527-7	Sequence 7, Appli
27	69	4.3	641	10	US-09-876-527-2	Sequence 2, Appli
28	69	4.3	818	10	US-09-876-527-22	Sequence 22, Appl
29	69	4.3	1012	10	US-09-876-527-16	Sequence 16, Appl
30	68	4.0	162	9	US-10-106-598-6943	Sequence 6943, Ap
31	68	4.0	168	9	US-09-809-5028-40	Sequence 40, Appl
32	68	4.0	244	9	US-10-293-241-7	Sequence 7, Appli
33	68	4.0	244	10	US-09-848-294-7	Sequence 7, Appl.
34	68	4.0	248	9	US-10-293-241-10	Sequence 10, Appl
35	68	4.0	248	10	US-09-848-294-10	Sequence 10, Appl
36	68	4.0	281	10	US-09-788-626-28	Sequence 28, Appl
37	68	4.0	291	10	US-09-788-626-22	Sequence 22, Appl
38	68	4.0	298	10	US-09-788-626-29	Sequence 29, Appl
39	68	4.0	309	10	US-09-788-626-12	Sequence 12, Appl
40	68	4.0	310	10	US-09-788-626-10	Sequence 10, Appl
41	68	4.0	313	10	US-09-788-626-19	Sequence 19, Appl
42	68	4.0	316	10	US-09-788-626-5	Sequence 5, Appli
43	68	4.0	316	10	US-09-788-626-26	Sequence 26, Appl
44	68	4.0	317	10	US-09-788-626-4	Sequence 4, Appli
45	68	4.0	354	9	US-09-095-478-6	Sequence 6, Appli

ALIGNMENTS

```
RESULT 1
US-09-822-295-2
  Sequence 2, Application US/09822295
  Patent No. US20020119501A1
  GENERAL INFORMATION:
;       APPLICANT: Bahija Jallal
;                  Gregory D. Plowman
;       TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                           PTP04 RELATED DISORDERS
;       NUMBER OF SEQUENCES: 18
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Lyon & Lyon
;            STREET: 633 West Fifth Street
;                    Suite 4700
;            CITY: Los Angeles
;            STATE: California
;            COUNTRY: U.S.A.
;            ZIP: 90071-2066
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3.5" Diskette, 1.44 MB
;                         storage
;            COMPUTER: IBM Compatible
;            OPERATING SYSTEM: IBM P.C. DOS 5.0
;            SOFTWARE: FastSEQ for Windows 2.0
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/822,295
;            FILING DATE: 02-Apr-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: 09/031,349
;            FILING DATE: <Unknown>
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Warburg, Richard J.
;            REGISTRATION NUMBER: 32,327
;            REFERENCE/DOCKET NUMBER: 244/254
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (213) 489-1600
;            TELEFAX: (213) 955-0440
;            TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 2:
;       SEQUENCE CHARACTERISTICS:
;            LENGTH: 807 amino acids
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; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: PA103P1C1
; CURRENT APPLICATION NUMBER: US/10/122,806
; CURRENT FILING DATE: 2002-03-22
; PRIOR APPLICATION NUMBER: US/09/925,298
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US03/05881
; PRIOR FILING DATE: 2003-03-03
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 846
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 606
; LENGTH: 33
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (9)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
; NAME/KEY: SITE
; LOCATION: (285)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
US-10-122-806-606

Query Match 23.9%; Score 193; DB 9; Length 33;
Best Local Similarity 100.0%; Pred. No. 1.4e-182;
Matches 193; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 568 PTSSTSLPSYYNSHDSLSLNSPINISSLLNQESAVLATAPRTDDETPPLPVKTPESPIV 627
Db 92 PTSSISLPSYYNSHDSLSLNSPINISSLLNQESAVLATAPRTDDETPPLPVRTPESPIV 151

Qy 628 VEEAGEPSPNVPPSLSSAVPVPQTSTSWPTSSPPKPHQSVTQPSSSVPTPSPKSELH 687
Db 152 VEEAGEPSPNVPPSISSAVPVPQTSTSFWQTSSPPKPHQSVTQPSSSVPTPSPKSELH 211

Qy 688 QTPSSTPPPLPEKTLESPTLAGPTCMQAQSTETYSTSYTTTMPNSTSSPLTLKTPSKSPT 747
Db 212 QDPSSTPPPLPEKTLESPTLAGPTCMQAQSTETYSTSYTTTMPNSTSSPLTLKTPSKSPT 271

Qy 748 RSKSLKTLRNMKK 760
Db 272 RSKSLKTLRNMKK 284

RESULT 3
US-09-822-295-18
; Sequence 18, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP94 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM PC DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295

; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

Query Match 4.0%; Score 32; DB 10; Length 802;
Best Local Similarity 100.0%; Pred. No. 9.8e-23;
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 89 FIKGVYSPKAYIAFQCPLSITLLDPWRMIWFY 120
|||||||||||||||||||||||||||||||
Db 89 FIKGVYSPKAYIAFQCPLSITLLDPWRMIWFY 120

RESULT 4
US-09-822-295-16
; Sequence 16, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 16:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-822-295-16

Query Match 3.7%; Score 30; DB 10; Length 30;
Best Local Similarity 100.0%; Pred. No. 4.4e-22;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 499 YSLPYDSKHQIRNASNVKHHDSSAIGVYSY 528
||||||||||||||||||||||||||||||
Db 1 YSLPYDSKHQIRNASNVKHHDSSAIGVYSY 30

RESULT 5
US-09-822-295-17
; Sequence 17, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,345
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 30 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 17:
US-09-822-295-17

Query Match 3.9%; Score 29; DB 10; Length 30;
Best Local Similarity 100.0%; Pred. No. 4.3e-21;
Matches 29; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 317 HTLQADSYSPNLPKSITKAAKMMNQQRTK 345
|||||||||||||||||||||||||||||
Db 1 HTLQADSYSPNLPKSITKAAKMMNQQRTK 29

; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-21

Query Match 2.0%; Score 16; DB 10; Length 312;
Best Local Similarity 100.0%; Pred. No. 2.9e-07;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 84 YINANFIKGVYGPKAY 99
||||||||||||||||
Db 42 YINANFIKGVYGPKAY 57

RESULT 8
US-10-245-539-6
; Sequence 6, Application US/10245539
; Publication No. US20030077638A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; TITLE OF INVENTION: MID 4460, A HUMAN TYROSINE PHOSPHATASE
; FILE OF INVENTION: FAMILY MEMBER AND USES THEREFOR
; FILE REFERENCE: MP101-155PIRM
; CURRENT APPLICATION NUMBER: US/10/245,539
; CURRENT FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: 60/328,018
; PRIOR FILING DATE: 2001-09-10
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Consensus Sequence
US-10-245-539-6

Query Match 1.5%; Score 12; DB 9; Length 264;
Best Local Similarity 100.0%; Pred. No. 0.0024;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 56 KKNEYKDILPYD 67
||||||||||||
Db 3 KKNEYKDILPYD 14

RESULT 9
US-10-087-993-32
; Sequence 32, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Aoki, Naohito
; Kim, Yoong Woong
; Wang, Bong Yang
; Chen, Zhenqiu
; Naylor, Oliver
; Kharitonenkov, Alexei Igorevich
; TITLE OF INVENTION: NOVEL PTP20, PTP 2, BDPL, SLK,
; AND SIRP POLYPEPTIDES AND RELATED
; PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 68
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:

; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/087,993
; FILING DATE: 05-Mar-2002
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/877,150
; FILING DATE: June 17, 1997
; APPLICATION NUMBER: U.S. 60/019,620
; FILING DATE: June 17, 1996
; APPLICATION NUMBER: U.S. 60/023,435
; FILING DATE: August 9, 1996
; APPLICATION NUMBER: U.S. 60/030,860
; FILING DATE: No. US20020169303Alember 13, 1996
; APPLICATION NUMBER: U.S. 60/034,286
; FILING DATE: December 19, 1996
; APPLICATION NUMBER: U.S. 60/030,964
; FILING DATE: No. US20020169303Alember 15, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 225/298
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 32:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 32:
US-10-087-993-32

Query Match 1.4%; Score 11; DB 9; Length 448;
Best Local Similarity 100.0%; Pred. No. 0.036;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 HCSAGCGRTGV 236
|||||||||||
Db 228 HCSAGCGRTGV 238

RESULT 13
US-10-243-687-7
; Sequence 7, Application US/10243687
; Publication No. US20030073120A1
; GENERAL INFORMATION:
; APPLICANT: Aoki, Naohito
; Ullrich, Axel
; TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
; AND RELATED PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/243,687
; FILING DATE: 16-Sep-2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/430,626A
; FILING DATE: 29-Oct-1999
; APPLICATION NUMBER: 08/951,260
; FILING DATE: October 16, 1997
; APPLICATION NUMBER: 60/030,860
; FILING DATE: November 13, 1996
; APPLICATION NUMBER: PCT/IB97/00946
; FILING DATE: June 17, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 225/304
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-243-687-7

Query Match 1.4%; Score 11; DB 9; Length 453;
Best Local Similarity 100.0%; Pred. No. 0.037;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 HCSAGCGRTGV 236
|||||||||||
Db 228 HCSAGCGRTGV 238

RESULT 11
US-10-087-993-36
; Sequence 36, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; Aoki, Naohito
; Kim, Yeong Woong
; Wang, Hong Yang
; Chen, Zhengjun
; Naylor, Oliver
; Kharitonenkov, Alexei Igorevich
; TITLE OF INVENTION: NOVEL PTP20, PCP-2, BOP1, CLK,
; AND SIRP POLYPEPTIDES AND RELATED
; PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 38
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/087,993
; FILING DATE: 05-Mar-2002

; APPLICANT: Bailey, Robert
; APPLICANT: Bills, Brian
; APPLICANT: Bush, Peter
; APPLICANT: Buchman, Todd
; APPLICANT: Meilen, Kevin
; APPLICANT: Mixon, Mary
; APPLICANT: Nelson, Judi
; APPLICANT: Nye, Gene, Jr.
; APPLICANT: Abruzzo, Gail
; APPLICANT: Bowers, Bill
; APPLICANT: Flattery, Amy
; APPLICANT: Giacobbe, Ralph
; APPLICANT: Hazlett, Lori
; APPLICANT: Schmatz, Dan
; APPLICANT: Scott, Jeff
; APPLICANT: Summers, Eric
; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
; FILE REFERENCE: 20047.147
; CURRENT APPLICATION NUMBER: US/09/801,368
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 09/407,558
; PRIOR FILING DATE: 1999-09-28
; PRIOR APPLICATION NUMBER: US 60/160,587
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ IDS: 41
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 299
; TYPE: PRT
; ORGANISM: Saccharomycopsis fibuligera

US-09-801-368-280

Query Match 1.4%; Score 11; DB 10; Length 750;
Best Local Similarity 100.0%; Pred. No. 0.059;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 226 HCSACCCRIGV 236
||||||||||||
Db 665 HCSAGCCRIGV 675

RESULT 13
US-09-788-626-27
; Sequence 27, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 27
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-27

Query Match 1.2%; Score 10; DB 10; Length 294;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 KAYIATQGPL 106
||||||||||
Db 55 KAYIATQGPL 64

RESULT 14
US-09-788-626-6
; Sequence 6, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 319
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-6

Query Match 1.2%; Score 10; DB 10; Length 319;
Best Local Similarity 100.0%; Pred. No. 0.26;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 KAYIATQGPL 106
||||||||||
Db 57 KAYIATQGPL 66

RESULT 15
US-09-925-300-950
; Sequence 950, Application US/09925300
; Patent No. US20020151681A1

; GENERAL INFORMATION:
; APPLICANT: Craig Rosen
; APPLICANT: Steve Ruben
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
; FILE REFERENCE: CA101
; CURRENT APPLICATION NUMBER: US/09/925,300
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05988
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1860
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 250
; LENGTH: 442
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-925-300-250

Query Match 1.2%; Score 10; DB 10; Length 442;
Best Local Similarity 100.0%; Pred. No. 0.35;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Job time : 31 secs

GenCore version 5.1.6

Mon Jul 7, 2003, 14:49:37 ; Search time 26 Seconds
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Gap 10.0 Gapext 0.5

Searching: 44963 seqs, 11499291[5] residues

Total number of hits satisfying chosen parameters: 44963

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
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Listing first 45 summaries

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Total No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is based on analysis of the total score distribution.

SUMMARIES

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2	2	1008	50.2	581	9	US-10-102-806-606	Sequence 606, App
3	3	1004.5	50.0	802	10	US-09-822-295-18	Sequence 18, Appl
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5	5	972	48.4	1142	9	US-10-085-108-7	Sequence 7, Appli
6	6	972	48.4	1142	9	US-10-207-655-79	Sequence 79, Appl
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17	17	869	43.3	1479	10	US-09-801-368-52	Sequence 52, Appl
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20	20	128.5	4.4	1736	10	US-09-819-447-58	Sequence 58, Appl
21	21	128	4.4	689	10	US-09-825-141-6	Sequence 6, Appli
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25	25	126	4.3	938	9	US-10-129-217A-28	Sequence 28, Appl
26	26	126	4.3	938	9	US-10-129-217A-29	Sequence 29, Appl
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35	35	124	4.3	957	9	US-10-025-380-1865	Sequence 1065, Ap
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38	38	123.5	4.2	1139	9	US-09-927-814A-15	Sequence 15, Appl
39	39	122.5	4.2	1192	9	US-10-060-?69-?1	Sequence 71, Appl
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41	41	122.5	4.2	1192	10	US-09-794-140-6	Sequence 6, Appli
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ALIGNMENTS

RESULT 1
US-09-822-295-2
Sequence 2, Application PC 09822295
Patent No. US20020119501A1
GENERAL INFORMATION:
APPLICANT: Bahija Jallal
Gregory D. Plowman
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF PROG RELATED DISORDERS
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071 2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/822,295
FILING DATE: 02 Apr 2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/???,???
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,???
REFERENCE/DOCKET NUMBER: 203/253
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955 0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 807 amino acids

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[illegible]MATI N

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;   TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
;   FILE REFERENCE: PA1[illegible]
;   CURRENT APPLICATION NUMBER: US/10/102,806
;   CURRENT FILING DATE: 2002 03 22
;   PRIOR APPLICATION NUMBER: 09/925,298
;   PRIOR FILING DATE: 2001 08 10
;   PRIOR APPLICATION NUMBER: PCT/US00/[illegible]
;   PRIOR FILING DATE: [illegible] 03 08
;   PRIOR APPLICATION NUMBER: 60/124,2[illegible]
;   PRIOR FILING DATE: 1999 03 12
;   NUMBER OF SEQ ID NOS: 846
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;     LENGTH: 331
;     TYPE: PRT
;     ORGANISM: Homo sapiens
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;     LOCATION: (91)
;     OTHER INFORMATION: Xaa equals any of the naturally occurring L amino acids
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;     LOCATION: (285)
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US-10-102-806-606

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; Sequence 18, Application US/09822295
; Patent No. US20020019501A1
;  GENERAL INFORMATION:
;        APPLICANT: Bahija Jallal
;                   Gregory D. Plowman
;        TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                            PTP04 RELATED DISORDERS
;        NUMBER OF SEQUENCES: 18
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Lyon & Lyon
;             STREET: 633 West Fifth Street
;                     Suite 4700
;             CITY: Los Angeles
;             STATE: California
;             COUNTRY: U.S.A.
;             ZIP: 90071-2066
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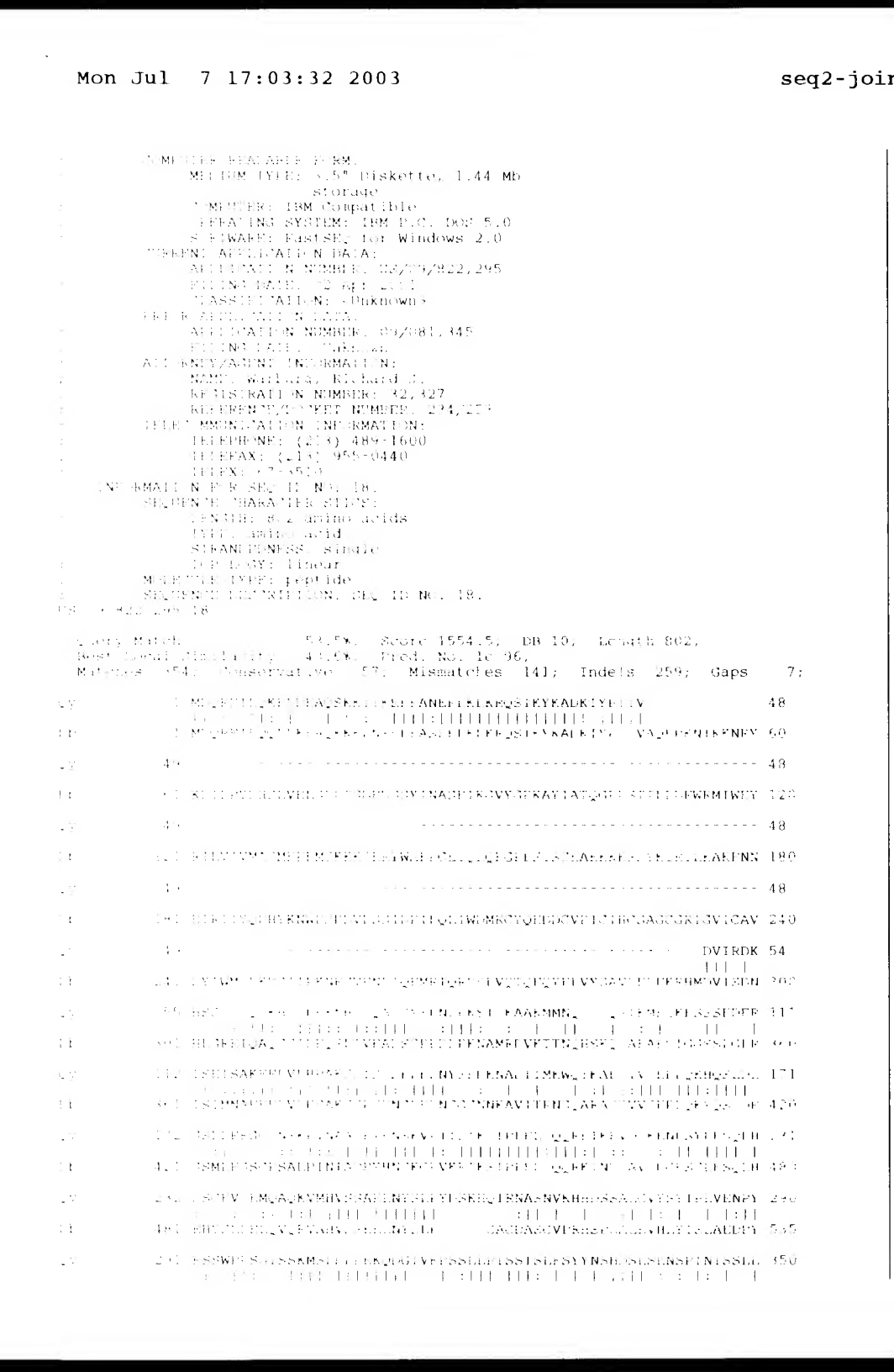
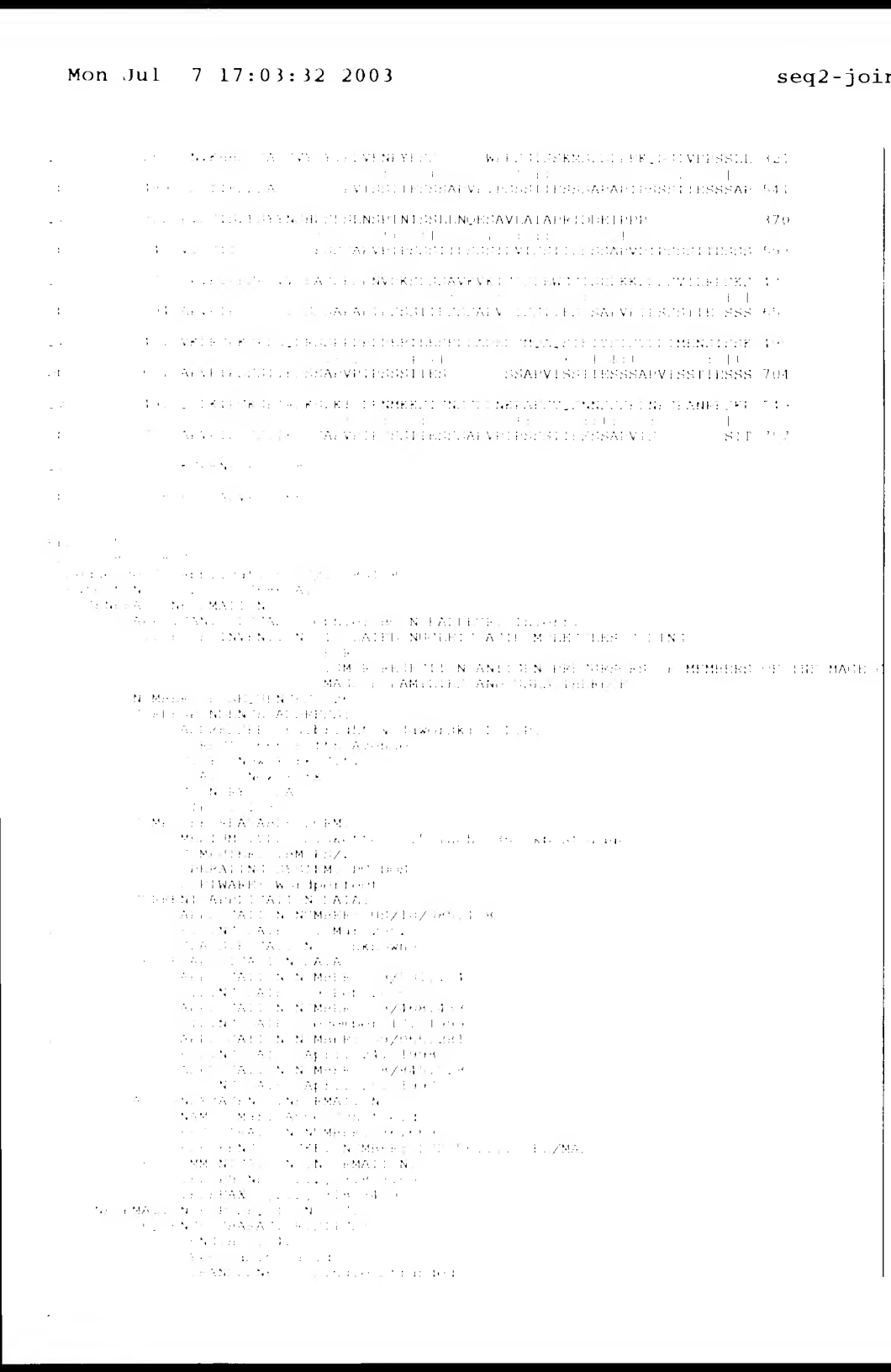
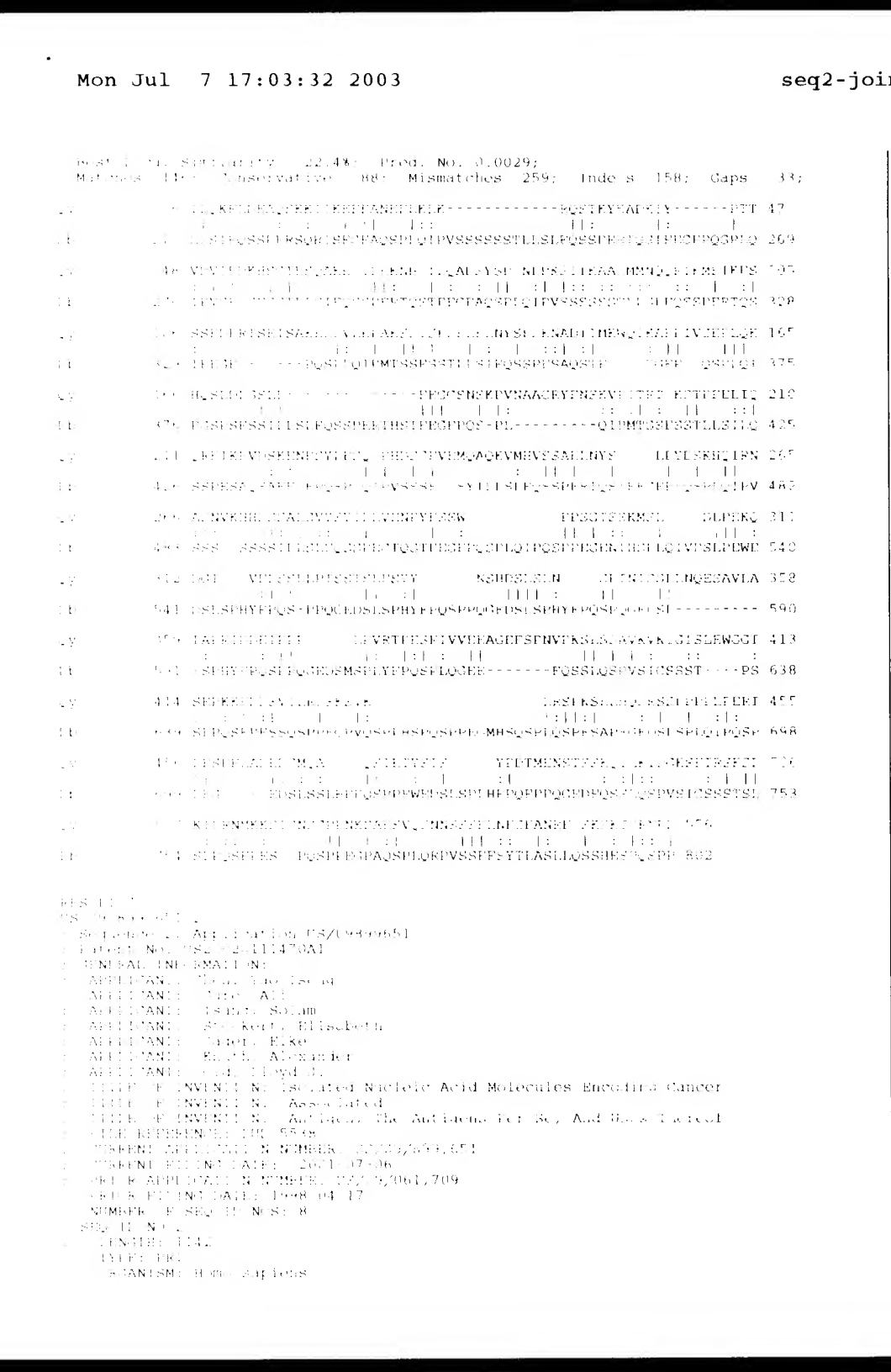
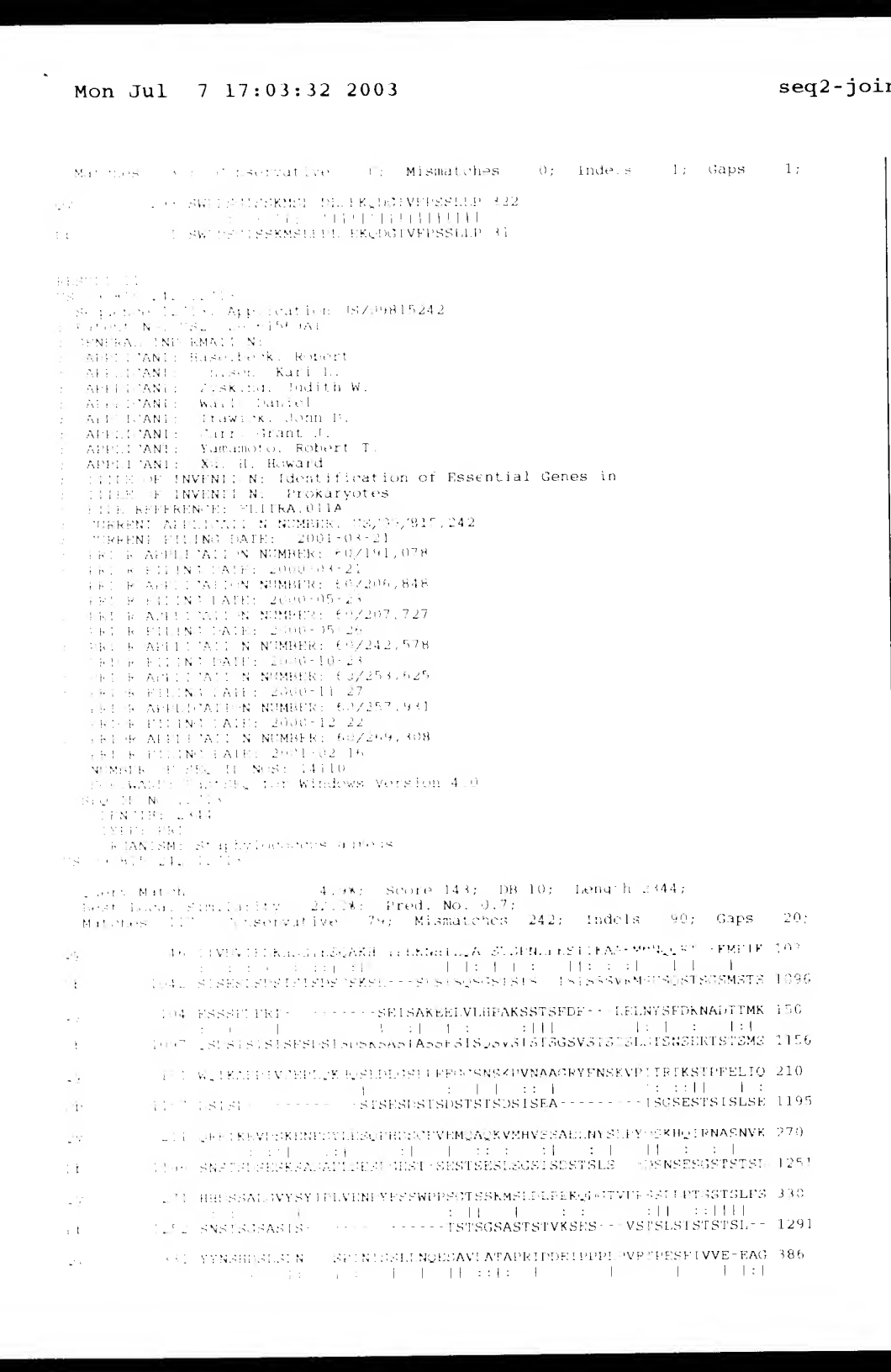
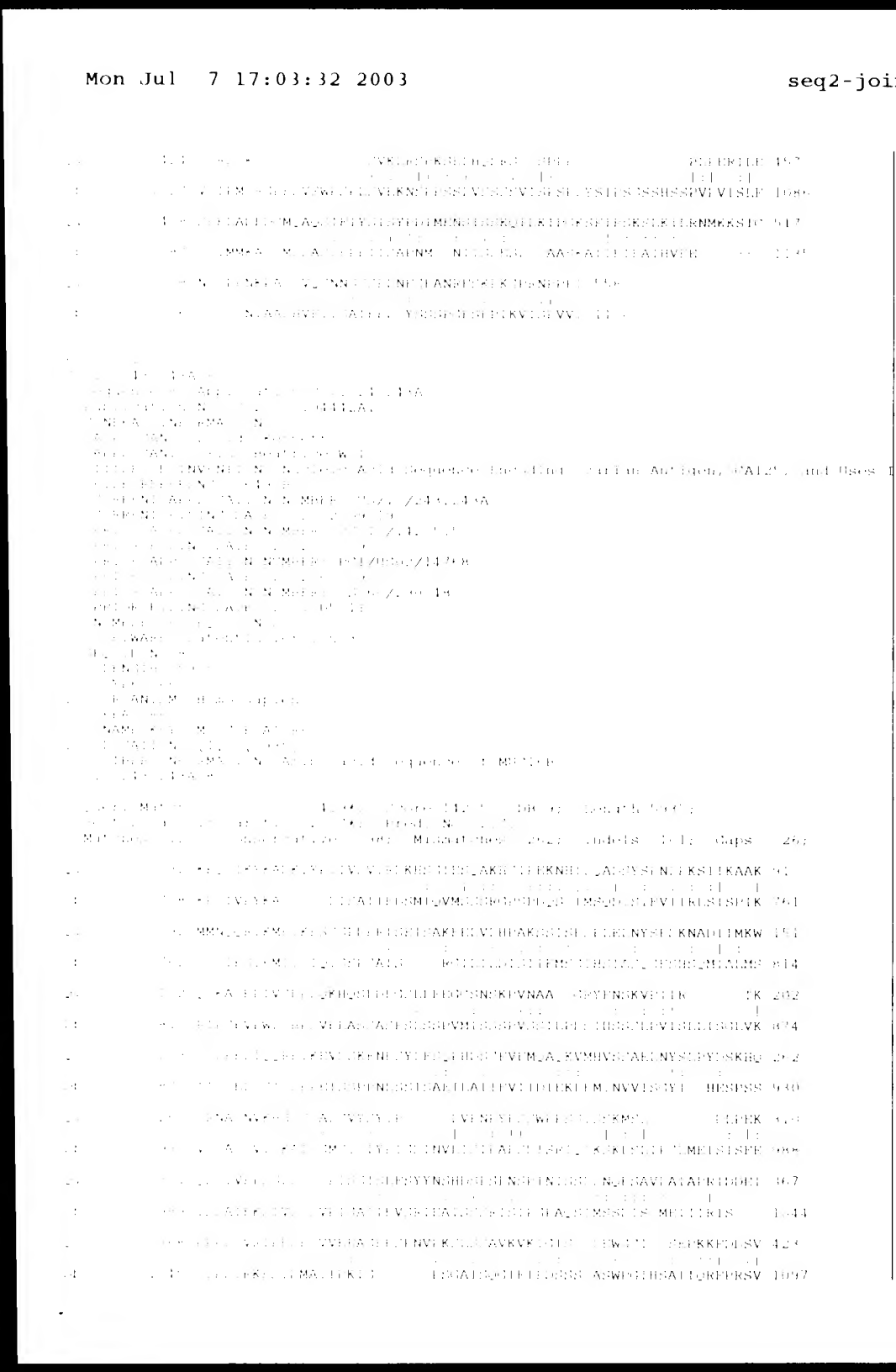






RESULT 8
US-09-822-205-16
; Sequence 16, Application US/09822205
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Yves A. Bo
; TITLE OF INVENTION: DIAGNOSTIC AND THERAPEUTIC
; TITLE OF INVENTION: PI3K4 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette
; storage





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; Sequence 3, Application US/09/932,257A
; Publication No. US20030036058A1
; GENERAL INFORMATION:
; APPLICANT: Estatico, Mario
; APPLICANT: Rooder, Robert
; TITLE OF INVENTION: MCEC, A Nu, [illegible] Transcription Factor
; FILE REFERENCE: 000 1 260N
; CURRENT APPLICATION NUMBER: US/09/932,257A
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/226,540
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: 60/226,539
; PRIOR FILING DATE: 2000-08-18
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 1163
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1036)..(1036)
; OTHER INFORMATION: x is any amino acid
US/09/932,257A-3

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Best Local Similarity 19.8%; Pred. No. 0.34;
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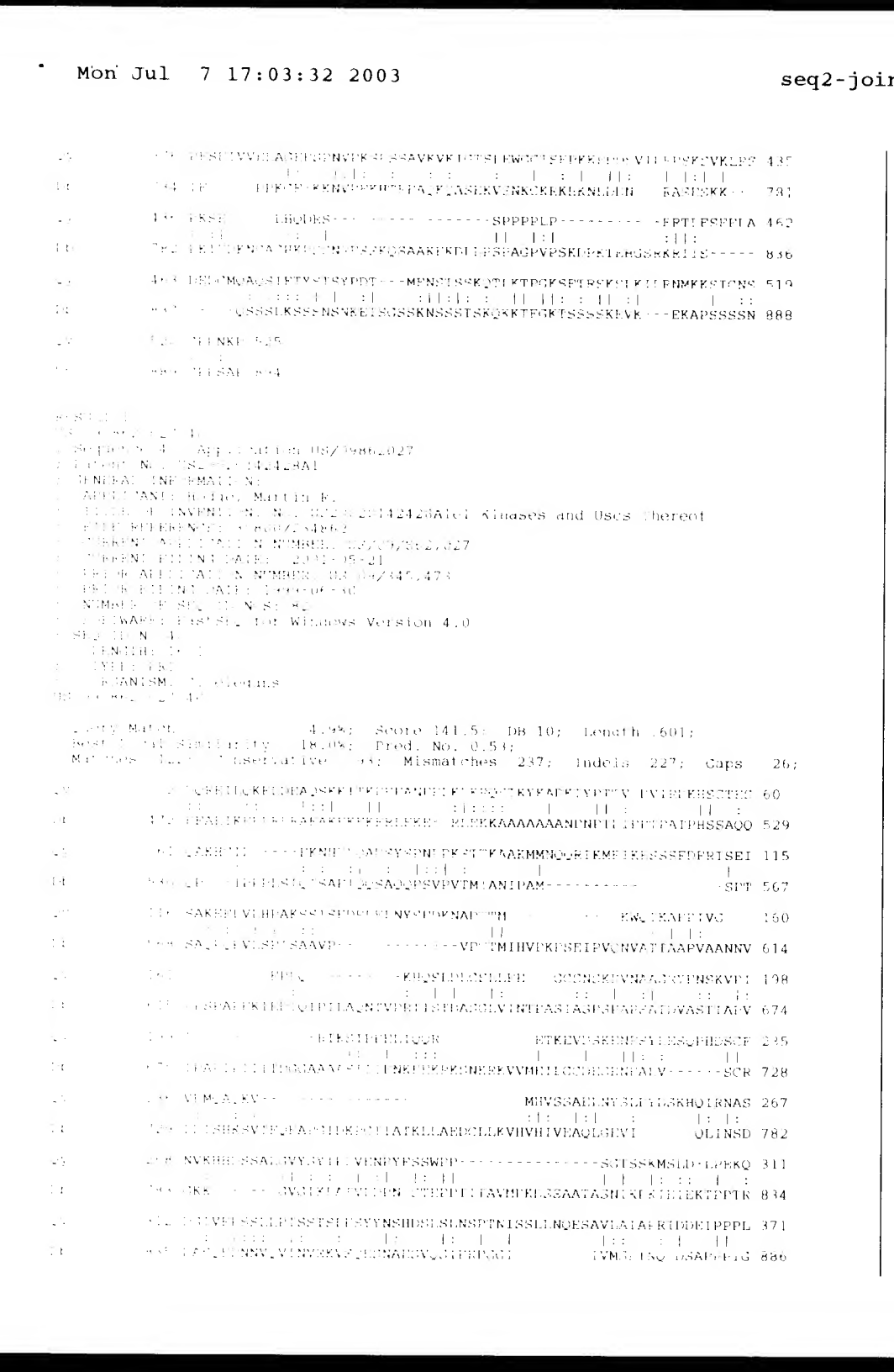

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Job time : 29 secs

GenCore version 5.1.6

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(without alignments)
970.956 Million cell updates/sec

Title: SEQ_2_TINGO
Perfect score: 2775
Sequence: 1 MS_PPPIL[PPPIPA_PPPIP.....FANRPPPEKIPPNPIPPWNI 561

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Searched: [illegible] seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262774

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
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3	1752	60.4	1142	2	US-08-993-118-7	Sequence 7, Appli
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39	123	4.2	900	4	US-08-[illegible]-198-12	Sequence 12, Appl
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44	121	4.2	1068	1	US 08-346-479A-12	Sequence 12, Appl
45	121	4.2	1068	1	US 08-818-82? 12	Sequence 12, Appl

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228841
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: [illegible] & Lyon
; STREET: 633 W. 5t Floor Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: [illegible] de
US-09-081-345-2

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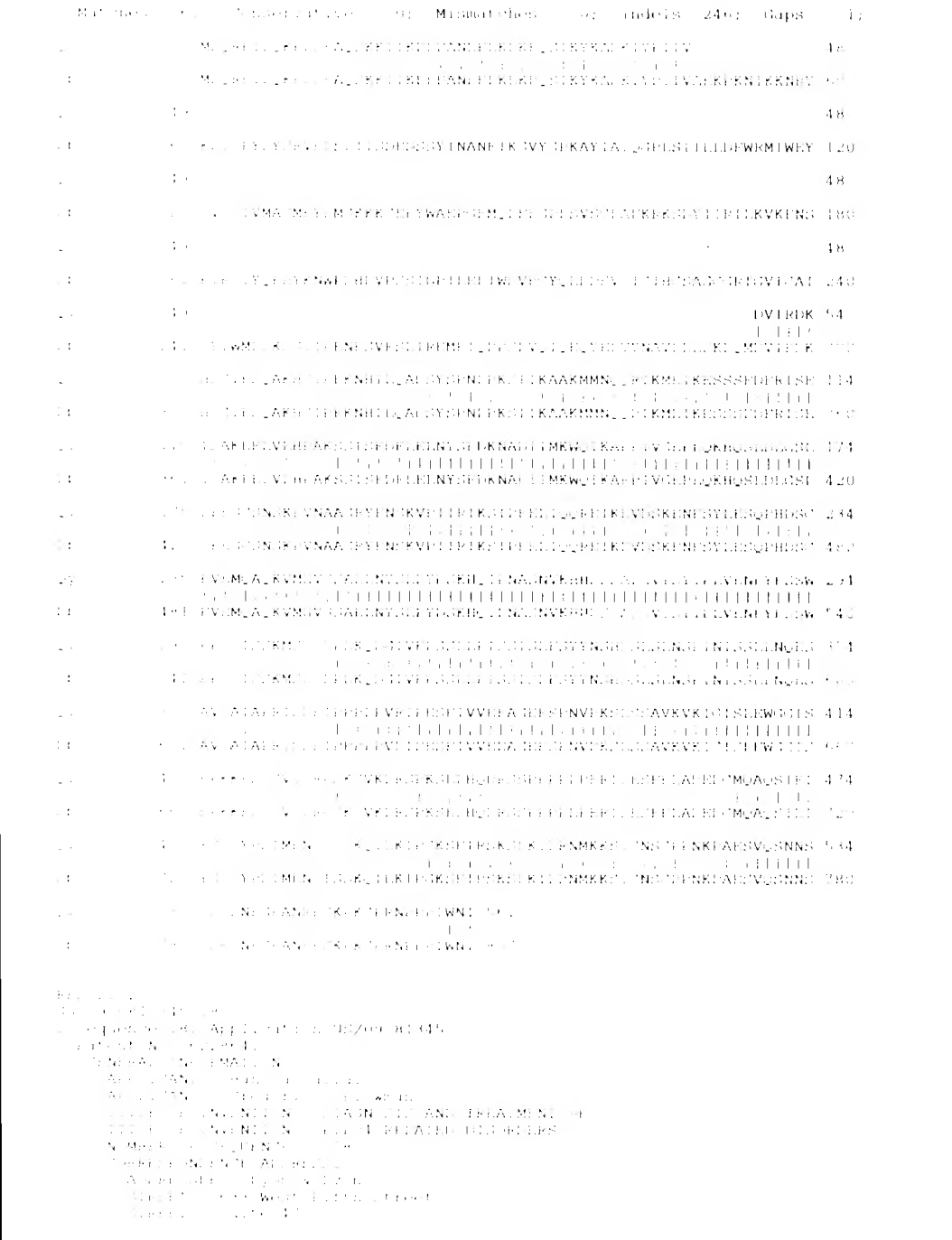

; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 5.25" Diskette, 1.44 Mb
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 09/[illegible]
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: [illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
RN 09 091 345-18

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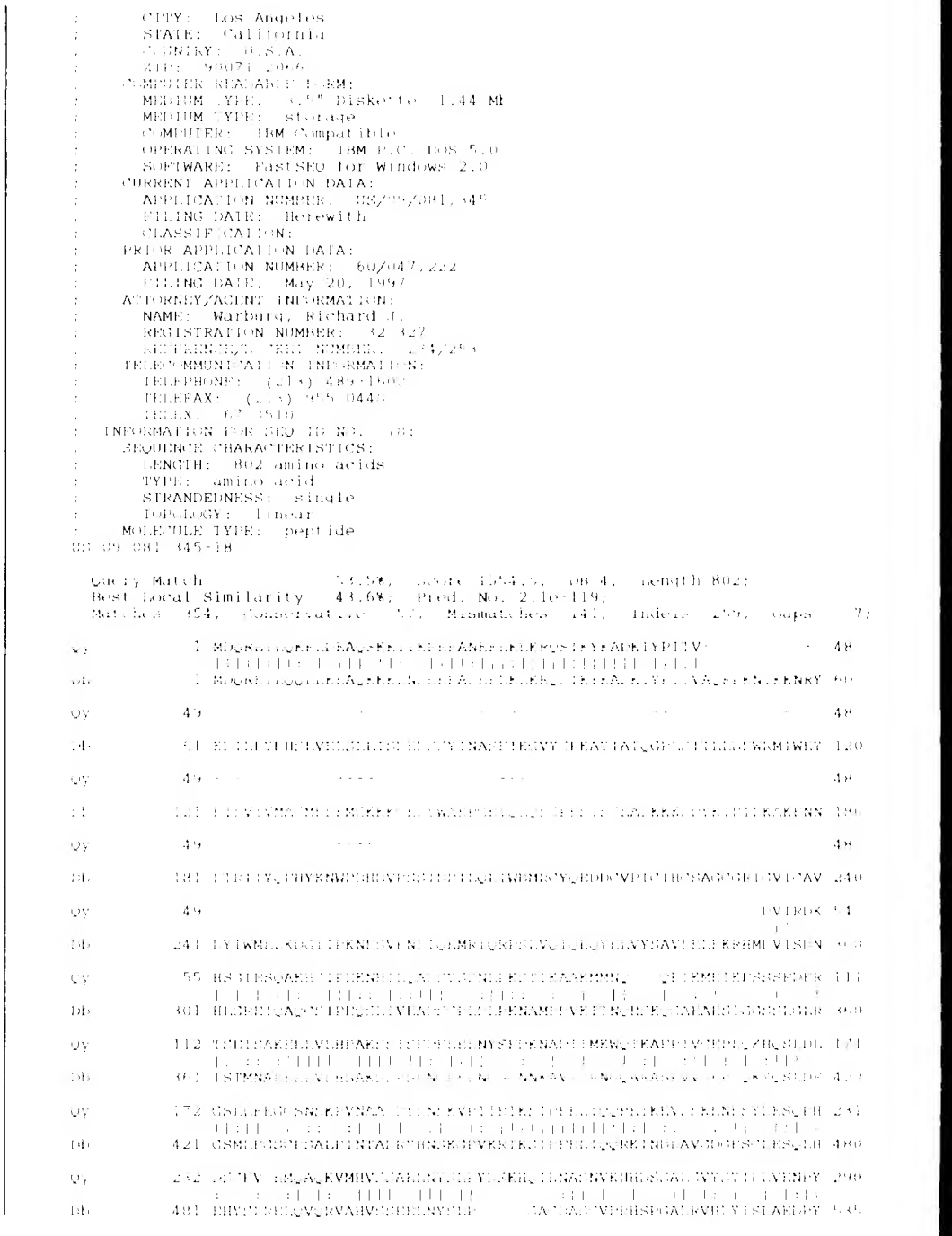
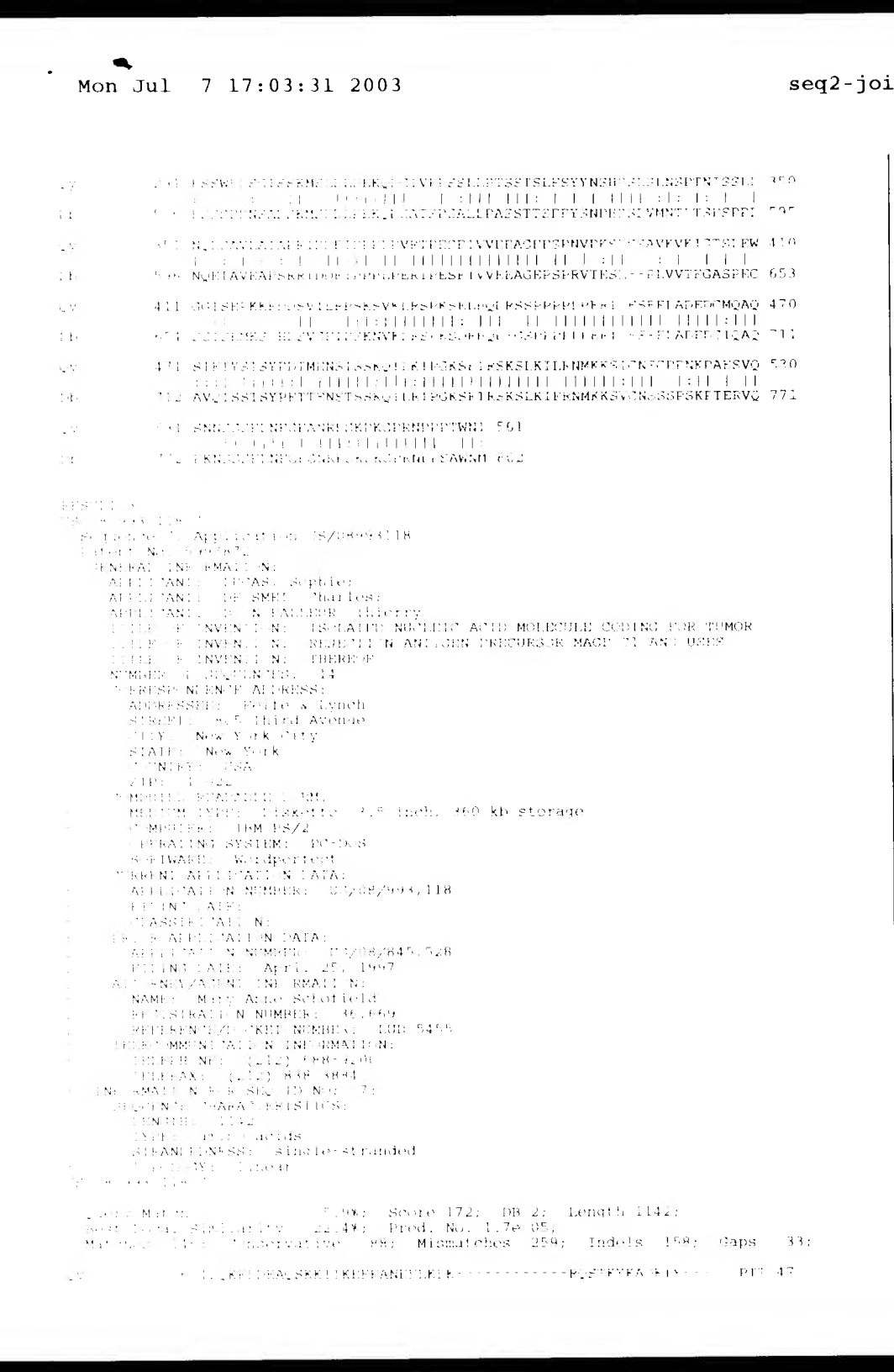
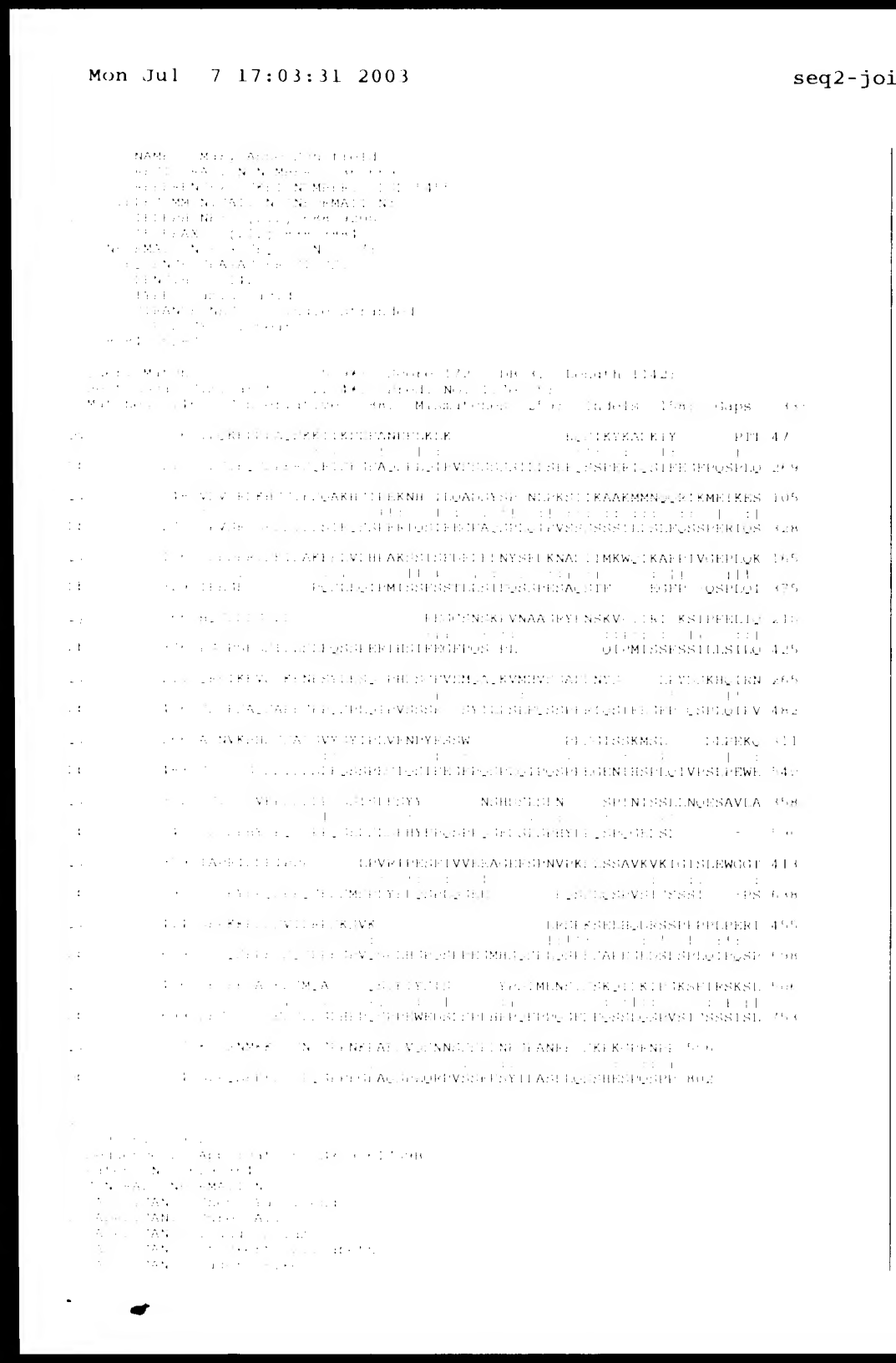
Best Local Similarity 43.6%; Pred. No. 2.1e-119;
Matches 454; Conservative 57; Mismatches 441; Indels 209; Gaps 7;





RESULT 4
US-08-845-528C-7
; Sequence 7, Application US/08845528C
; Patent No. 6027924
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PEPTIDES & MAGE-01 ANTIBODIES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 460 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528C
; FILING DATE: April 25, 1997
; CLASSIFICATION: 4435
; ATTORNEY/AGENT INFORMATION:



; APPLICANT: Knuth, Alexander
; APPLICANT: Old, Lloyd J.
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Tumor Associated
; TITLE OF INVENTION: Antigens, The Antigens For Sc, And Uses Thereof
; FILE REFERENCE: LBD 5538
; CURRENT APPLICATION NUMBER: US/09/061,709B
; CURRENT FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
; LENGTH: 1142
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
US-09-061-709-2

Query Match 5.7%; Score 167; DB 4; Length 1142;
Best Local Similarity 22.4%; Pred. No. 4.4e-05;
Matches 146; Conservative 85; Mismatches 262; Indels 158; Gaps 33;

RESULT 6
US-09-081-345-16
; Sequence 16, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: PTPRH EXTRACELLULAR AND TRANSMEMBRANE
; TITLE OF INVENTION: PTPRH EXTRACELLULAR DOMAINS

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;      NUMBER OF SEQUENCES: 18
;      CORRESPONDENCE ADDRESS:
;        ADDRESSEE: Lyon & Lyon
;        STREET: 633 West Fifth Street
;        STREET: Suite 4700
;        CITY: Los Angeles
;        STATE: California
;        COUNTRY: U.S.A.
;        ZIP: 90071-2066
;      COMPUTER READABLE FORM:
;        MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;        MEDIUM TYPE: storage
;        COMPUTER: IBM Compatible
;        OPERATING SYSTEM: IBM P.C. DOS 5.0
;        SOFTWARE: FastSEQ for Windows 2.0
;      CURRENT APPLICATION DATA:
;        APPLICATION NUMBER: US/09/081,345
;        FILING DATE: Herewith
;        CLASSIFICATION:
;      PRIOR APPLICATION DATA:
;        APPLICATION NUMBER: 60/047,222
;        FILING DATE: May 20, 1997
;      ATTORNEY/AGENT INFORMATION:
;        NAME: Warburg, Richard J.
;        REGISTRATION NUMBER: 32,327
;        REFERENCE/DOCKET NUMBER: 234/253
;      TELECOMMUNICATION INFORMATION:
;        TELEPHONE: (213) 489-1600
;        TELEFAX: (213) 955-0440
;        TELEX: 67-3510
;    INFORMATION FOR SEQ ID NO: 16:
;      SEQUENCE CHARACTERISTICS:
;        LENGTH: 30 amino acids
;        TYPE: amino acid
;        STRANDEDNESS: single
;        TOPOLOGY: linear
;      MOLECULE TYPE: peptide
US-09-081-345-16

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  Matches   30;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

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RESULT 7
US-09-134-001C-4165
; Sequence 4165, Application US/09134001C
; Patent No. [illegible]
; GENERAL INFORMATION:
;  APPLICANT: Lynn Doucette-Stamm et al
;  TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
;  TITLE OF INVENTION: EPIDERMIDIS FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE: GTC-007
;  CURRENT APPLICATION NUMBER: US/09/134,001C
;  CURRENT FILING DATE: 1998-08-13
;  PRIOR APPLICATION NUMBER: US 60/064,964
;  PRIOR FILING DATE: 1997-11-08
;  PRIOR APPLICATION NUMBER: US 60/055,779
;  PRIOR FILING DATE: 1997-08-14
;  NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4165
;   LENGTH: 2137
;   TYPE: PRT
;   ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4165

  Query Match             5.5%;  Score 155;  DB 4;  Length 2137;
  Best Local Similarity   20.4%;  Pred. No. 0.0011;
  Matches  [illegible];  Conservative   75;  Mismatches  294;  Indels   48;  Gaps   11;

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RESULT 8
US-09-081-345-17
; Sequence 17, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
;    APPLICANT: Rabija Tallal
;    APPLICANT: Gregory D. Plowman
;    TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;    TITLE OF INVENTION: PTP04 RELATED DISORDERS
;    NUMBER OF SEQUENCES: 18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE: Lyon & Lyon
;      STREET: 633 West Fifth Street
;      STREET: Suite 4700
;      CITY: Los Angeles
;      STATE: California
;      COUNTRY: U.S.A.
;      ZIP: 90071-2066
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;      MEDIUM TYPE: storage
;      COMPUTER: IBM Compatible
;      OPERATING SYSTEM: IBM P.C. DOS 5.0
;      SOFTWARE: FastSEQ for Windows 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER: US/09/081,345
;      FILING DATE: Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER: 60/047,222
;      FILING DATE: May 20, 1997
;    ATTORNEY/AGENT INFORMATION:
;      NAME: Warburg, Richard J.
;      REGISTRATION NUMBER: 32,327
;      REFERENCE/DOCKET NUMBER: 234/253
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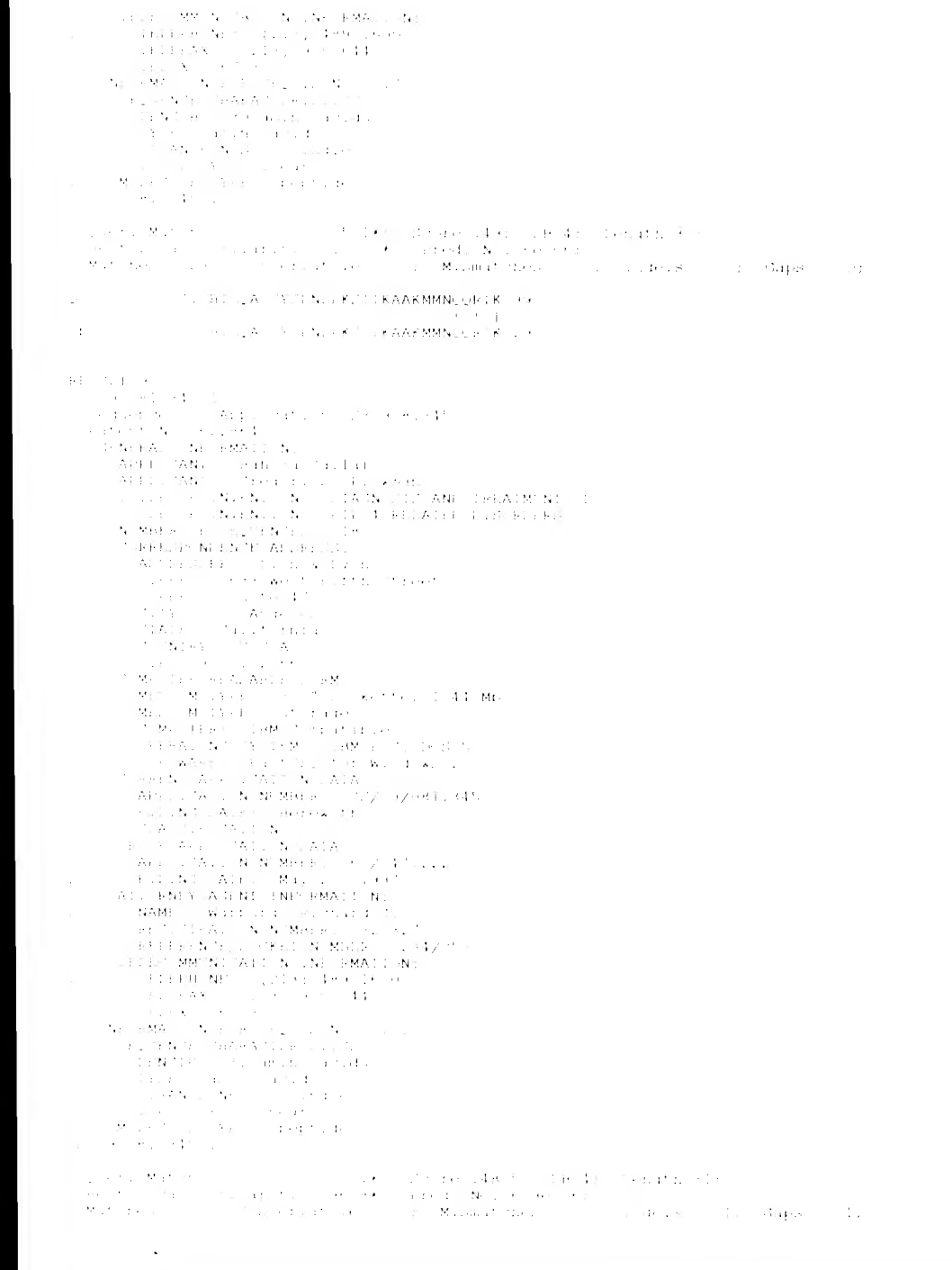

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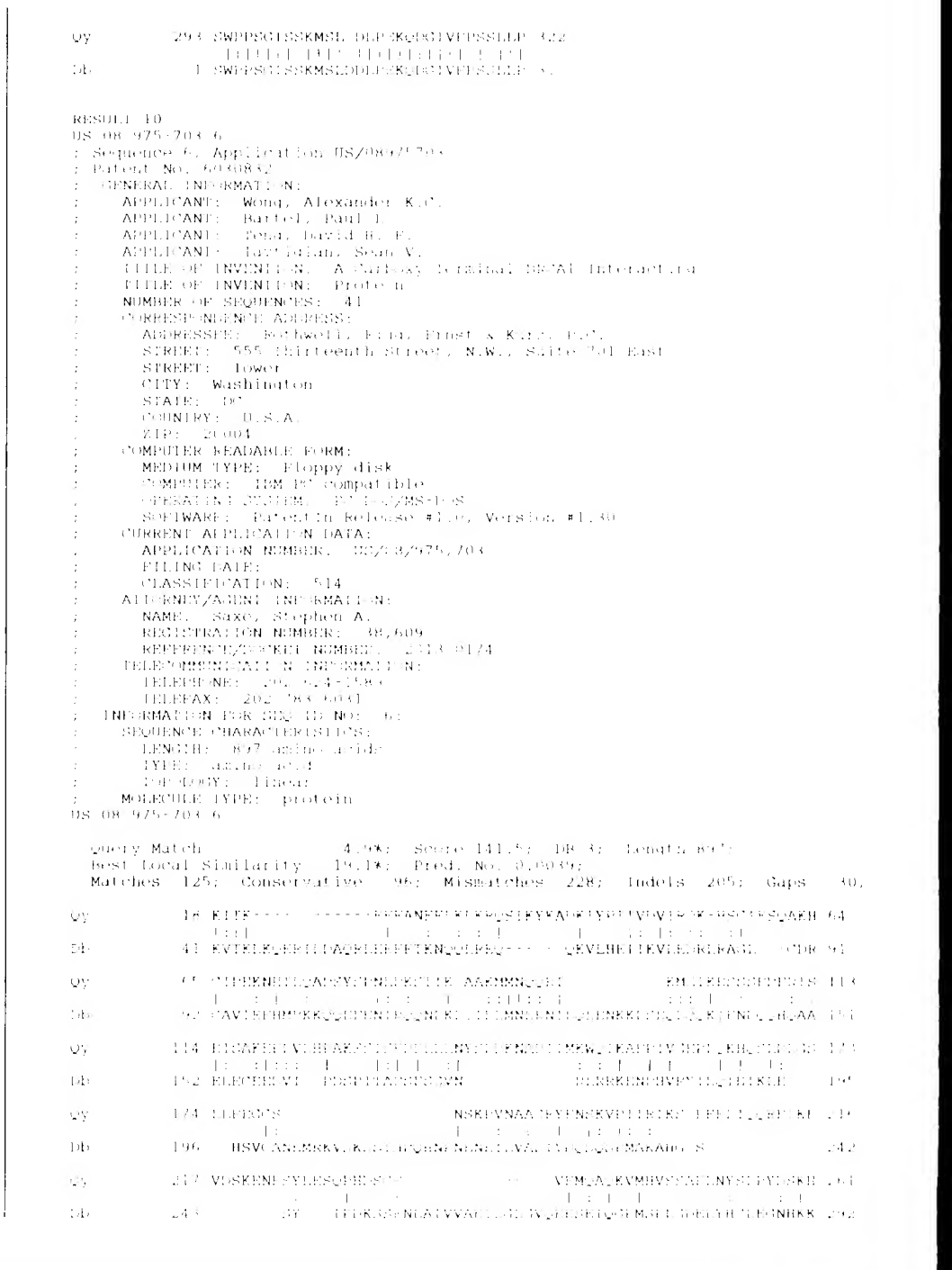
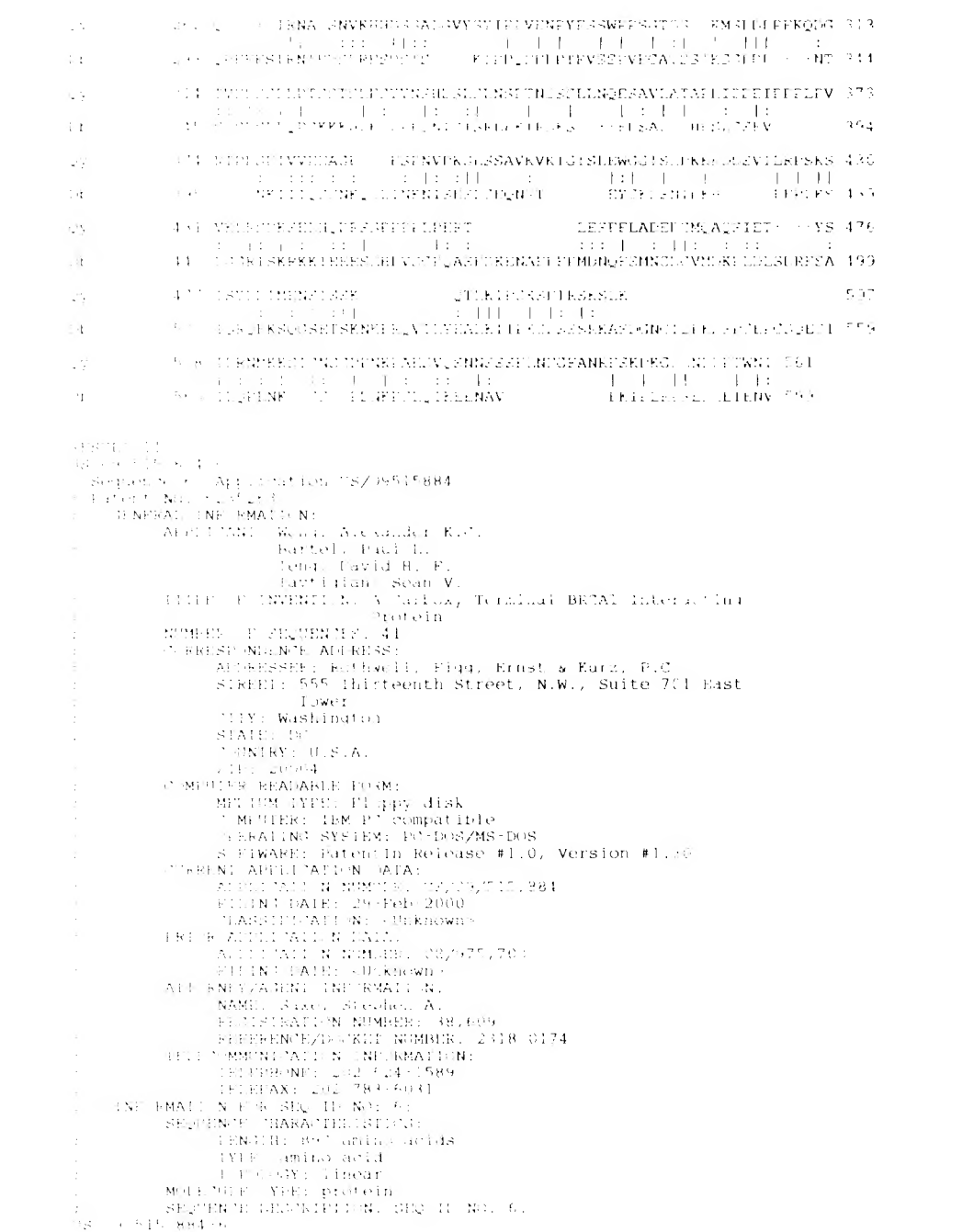
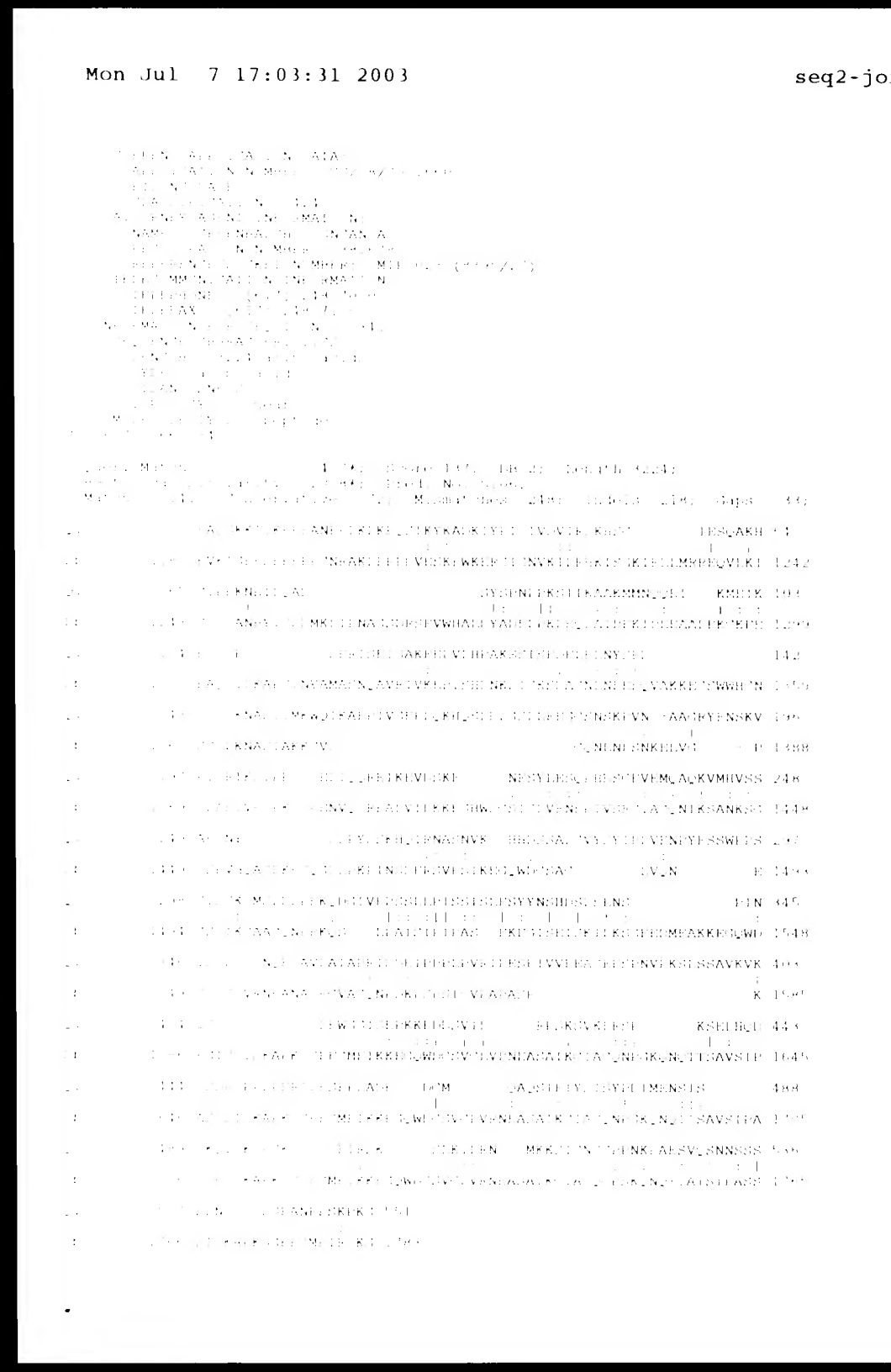
RESULT 10
DS/08/975,703/6
; Sequence 6, Application US/08/975,703
; Patent No. 6030832
; GENERAL INFORMATION:
; APPLICANT: Wong, Alexander K.C.
; APPLICANT: Bartel, Paul L
; APPLICANT: Penn, David R. F.
; APPLICANT: Iacobellan, Sean V.
; TITLE OF INVENTION: A Cytosol Original 38/Al Interactive
; TITLE OF INVENTION: Protein
; NUMBER OF SEQUENCES: 41
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz, P.C.
; STREET: 555 Thirteenth Street, N.W., Suite 701 East
; STREET: Tower
; CITY: Washington
; STATE: DC
; COUNTRY: U.S.A.
; ZIP: 20004
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/975,703
; FILING DATE:
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Saxe, Stephen A.
; REGISTRATION NUMBER: 38,609
; REFERENCE/DOCKET NUMBER: 2313-0124
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-783-6040
; TELEFAX: 202-783-6031
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: linear
; MOLECULE TYPE: protein
DS/08/975,703/6

Query Match 4.9%; Score 141.5; DB 3; Length 807;
Best Local Similarity 19.1%; Pred. No. 0.0039;
Matches 125; Conservative 96; Mismatches 228; Indels 205; Gaps 30;





RESULT 12
US-08-705-660-44
; Sequence 44, Application US/08705660
; Patent No. 5858683
; GENERAL INFORMATION:
; APPLICANT: [illegible]
; APPLICANT: SPAR, ROBERT
; APPLICANT: WU, YING-JYE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
; TITLE OF INVENTION: DETECTION OF OVARIAN CANCER
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Testa, Hurwitz & Thibeault
; STREET: 125 High St.
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30



RESULT 14
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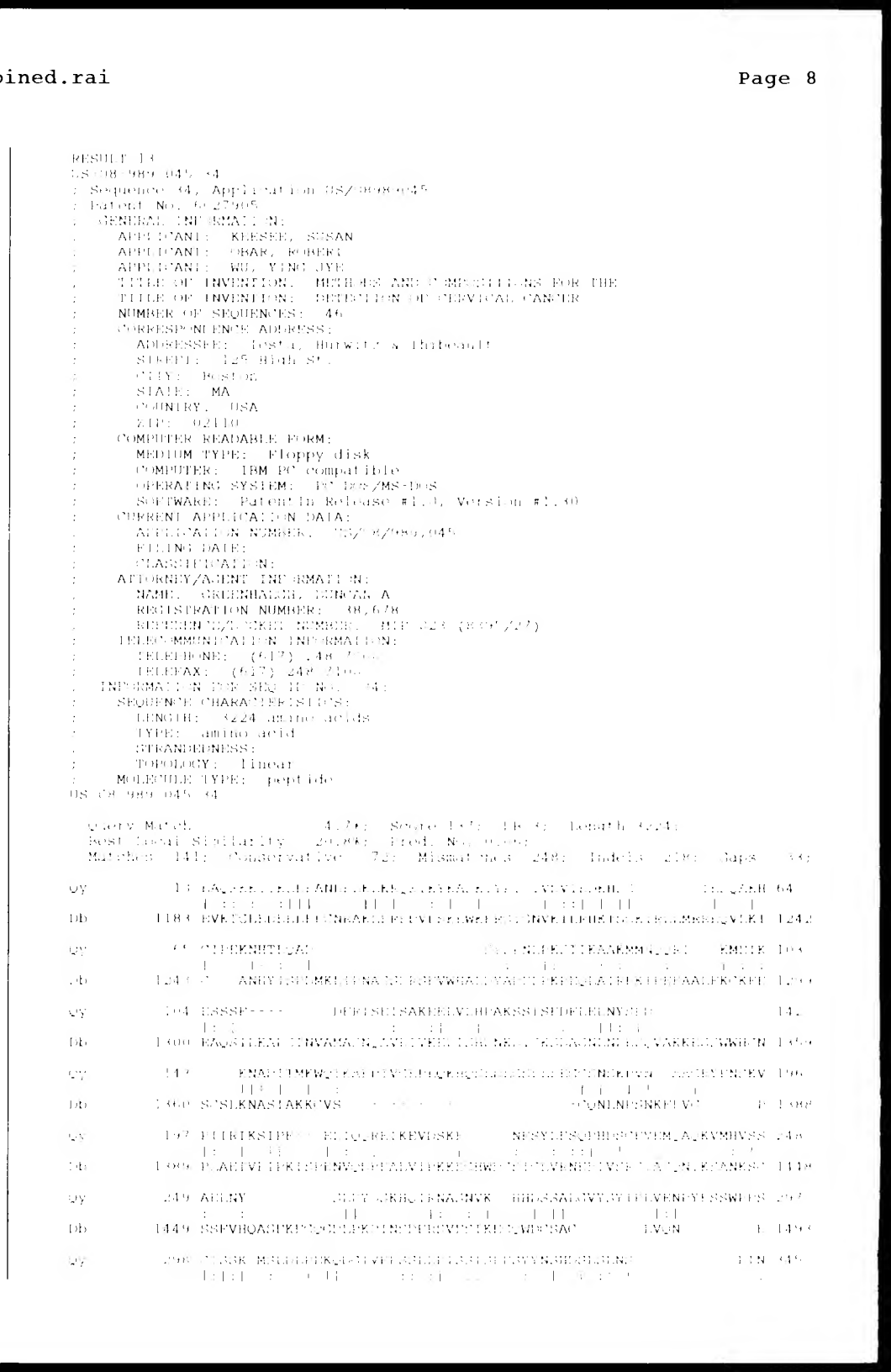
; Sequence 34, Application US/08989045
; Patent No. 6427905
; GENERAL INFORMATION:
; APPLICANT: KLESSE, SUSAN
; APPLICANT: OBAR, ROBERT
; APPLICANT: WU, YING JYE
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR THE
; TITLE OF INVENTION: DETECTION OF CERVICAL CANCER
; NUMBER OF SEQUENCES: 46
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish, Burwell & Thibeault
; STREET: 125 High St.
; CITY: Boston
; STATE: MA
; COUNTRY: USA
; ZIP: 02110
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/989,045
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: GREENBLATT, DONNA A
; REGISTRATION NUMBER: 38,678
; REFERENCE/DOCKET NUMBER: BUF 023 (8997/27)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 248 7000
; TELEFAX: (617) 248 7100
; INFORMATION FOR SEQ ID NO: 34:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 5224 amino acids
; TYPE: amino acid
; STRANDEDNESS:
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US/08/989,045/34



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RESULT 14

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; Sequence 2, Application US/09402429

; Patent No. [illegible]

; GENERAL INFORMATION:

; APPLICANT: Temple University - Of The Commonwealth System of Higher Education

; APPLICANT: Iosani, Antonio

; APPLICANT: [illegible]

; APPLICANT: Reddy, E. P.

; TITLE OF INVENTION: A [illegible] MUTANT TRANSGENIC ANIMALS AND

; TITLE OF INVENTION: USES THEREOF

; NUMBER OF SEQUENCES: [illegible]

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: [illegible] CAVOUNA & MONACO, P.C.

; STREET: Suite 1800 Two Penn Center Plaza

; CITY: Philadelphia

; STATE: PA

; COUNTRY: U.S.A.

; ZIP: [illegible]

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/402,929

; FILING DATE:

; CLASSIFICATION:

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/US98/06856

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: M[illegible], Daniel A.

; REGISTRATION NUMBER: [illegible]

; REFERENCE/DOCKET NUMBER: [illegible]356-214 PC

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: (215) 568-8383

; TELEFAX: (215) 568-[illegible]

; INFORMATION FOR SEQ ID NO: 2:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 751 amino acids

; TYPE: amino acid

; STRANDEDNESS: single

; TOPOLOGY: linear

US-[illegible]

Query Match 4.4%; Score 129; DB 4; Length 751;
Best Local Similarity 19.4%; Pred. No. 0.032;
Matches [illegible]; Conservative [illegible]; Mismatches 221; Indels 174; Gaps 28;

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Qy       224 [illegible]FHL[illegible]V[illegible]A[illegible]NA[illegible]V[illegible] 28[illegible]
Db       385 [illegible]VKQ[illegible]        VK[illegible]N[illegible]V[illegible]KKN[illegible]    [illegible]HA    [illegible]

Qy       281 [illegible]NPYP[illegible]W[illegible]KMS[illegible]      PEK[illegible]IV         FESS[illegible]S 324
Db       429 --[illegible]TSPNVVEP[illegible]PT[illegible]PKKK[illegible]V[illegible]NAA[illegible]VK[illegible] 48[illegible]

Qy       325 STSLPSYYNSHDSLGLNGPINISSI NQESAVLAI              APKI[illegible] 366
Db       497 PSQPPNTGPSNDQLNIENP[illegible]PT[illegible]KVL[illegible]KEA[illegible]KENV[illegible]TIKSS 546

Qy       367 IPPPLPVETPPSF  IVVEEAGFFS[illegible]          NVPFSLSSAVEVK[illegible]LEWGGISE 415
Db       547 [illegible]FF[illegible]PTPPENA[illegible]LEKT[illegible]V[illegible]AP[illegible]KKNVLKES[illegible]PEKEE[illegible] 605

Qy       416 P      KKFPDSV[illegible]LRPSKSVK[illegible]IHL[illegible]P[illegible]NL[illegible]AQ 47[illegible]
Db       606 FAYK[illegible]LHS[illegible]VK[illegible]       [illegible]KP[illegible]        [illegible]MQSE 651

Qy       471 [illegible]FYPDIME       [illegible]NMEE[illegible]NE 524
Db       652 NILTT[illegible]LLM[illegible]PL[illegible]NE[illegible]NL[illegible]IN[illegible]ANK[illegible]NK         EE[illegible]NL[illegible]KAVE 703

Qy       525 PAESVQSN 532
Db       704 LEKSLQSN 711
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RESULT 15

US-07-741-940-2

; Sequence 2, Application US/07741940

; Patent No. 5352775

; GENERAL INFORMATION:

; APPLICANT: ALBERTSEN, HANS

; APPLICANT: ANAND, RAKESH

; APPLICANT: CARLSON, MARY

; APPLICANT: GRODEN, JOANNA

; APPLICANT: HEDGE, PHILIP J.

; APPLICANT: JOSLYN, GEOFF

; APPLICANT: KINZLER, KENNETH

; APPLICANT: MARKHAM, ALEXANDER F.

; APPLICANT: NAKAMURA, YUSUKE

; APPLICANT: THLIVERIS, ANDREW

; TITLE OF INVENTION: INHERITED AND SOMATIC MUTATIONS OF APC

; TITLE OF INVENTION: GENE IN COLORECTAL CANCERS IN HUMANS

; NUMBER OF SEQUENCES: 94

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Banner, Birch, McKie & Beckett

; STREET: 1001 G Street, NW

; CITY: Washington

; STATE: D.C.

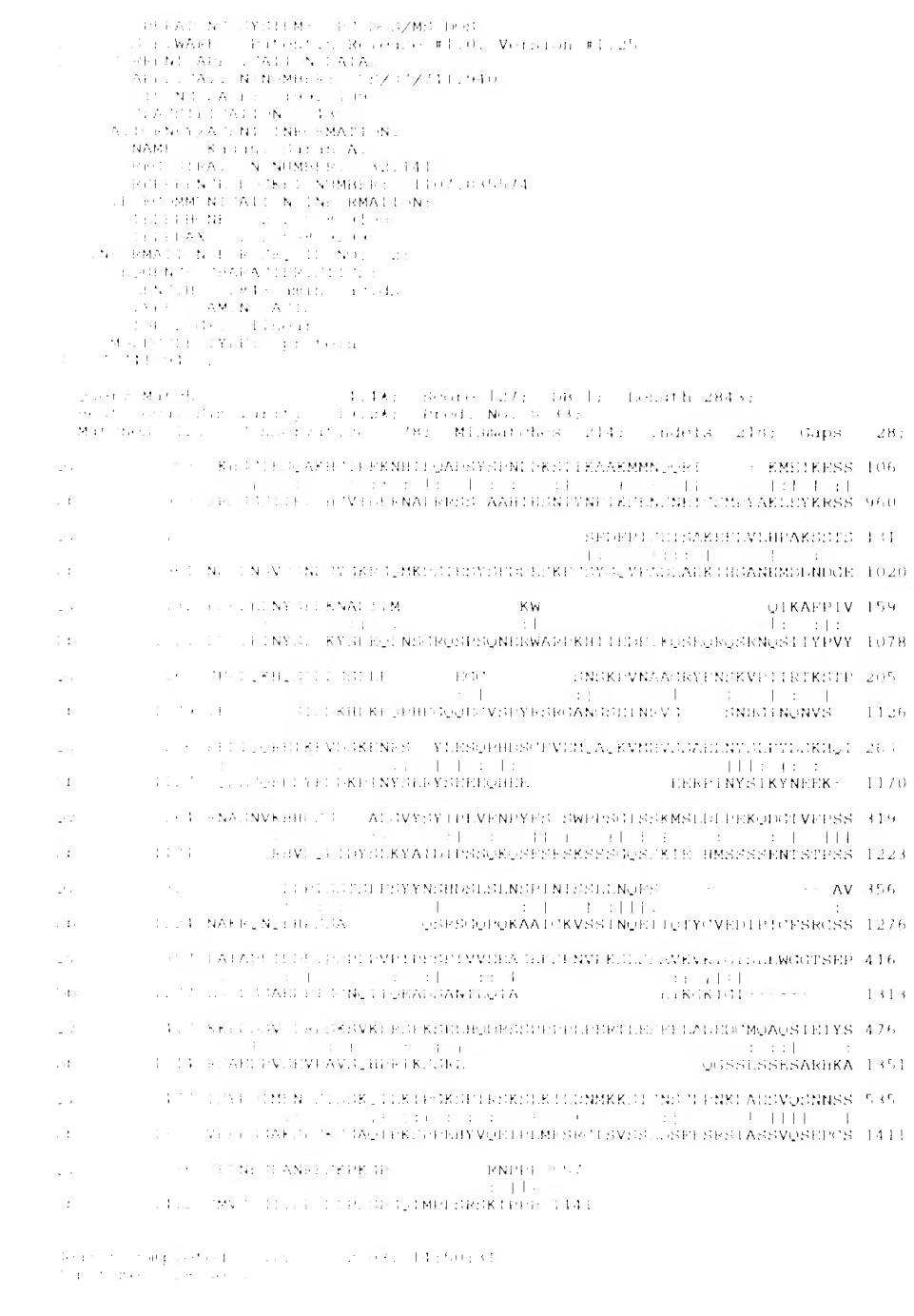
; COUNTRY: USA

; ZIP: 20001-4598

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible



GeneCore version 5.1.6

SM protein - protein search, using sw model

Run on: July 7, 2003, 14:25:45 ; Search time 23.78 Seconds
(without alignments)
2430.711 Million cell updates/sec

Title: US-09-822-295-2_COPY_295_807
Perfect score: 2597
Sequence: 1 DAVRDEHSGIESQAKHQIPF FANREFSKPKGPSNPPPTWNI 513

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440663 seqs, 114992415 residues

Total number of hits satisfying chosen parameters: 440663

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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7: /cgn2_6/ptodata/1/pubpaa/PCTUS_PUBCOMB.pep:*
8: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep:*
9: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep:*
10: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep:*
11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	2597	100.0	807	10	US-09-822-295-2	Sequence 2, Appli
2	1712	65.9	441	9	US-10-102-806-606	Sequence 606, App
3	1690.5	65.1	802	10	US-09-822-295-18	Sequence 18, Appl
4	1.2	0.0	1367	10	US-09-801-368-108	Sequence 108, App
5	1622.5	62.5	1142	9	US-10-085-108-7	Sequence 7, Appli
6	1622.5	62.5	1142	9	US-10-207-655-79	Sequence 79, Appl
7	1621	62.4	80	10	US-09-822-295-16	Sequence 16, Appl
8	1572.5	60.5	1142	10	US-09-899-651-2	Sequence 2, Appli
9	1.4	0.0	80	10	US-09-822-295-17	Sequence 17, Appl
10	1485.5	57.2	81	10	US-09-822-295-15	Sequence 15, Appl
11	1417	54.6	2444	10	US-09-815-242-12713	Sequence 12713, A
12	1396	53.8	5877	9	US-10-142-515-11	Sequence 11, Appl
13	1396	53.8	5945	6	US-10-243-243A-8	Sequence 8, Appli
14	1382.5	53.2	860	10	US-09-815-242-13057	Sequence 13057, A
15	1362	52.4	1263	9	US-09-932-257A-3	Sequence 3, Appli
16	1361	52.4	1601	10	US-09-862-027-40	Sequence 40, Appl
17	1321.5	50.8	2843	8	US-08-681-219-32	Sequence 32, Appl
18	1286	49.5	1736	10	US-09-919-497-98	Sequence 98, Appl
19	1245.5	48.0	2597	10	US-09-905-129-2	Sequence 2, Appli
20	1245	47.9	2597	10	US-09-905-129-10	Sequence 10, Appl
21	1245	47.9	2597	10	US-09-905-129-14	Sequence 14, Appl
22	1245	47.9	2597	10	US-09-991-630-2	Sequence 2, Appli
23	1245	47.9	2597	10	US-09-991-630-10	Sequence 10, Appl
24	1245	47.9	2597	10	US-09-991-630-14	Sequence 14, Appl
25	1245	47.9	2843	9	US-09-987-482-2	Sequence 1, Appli
26	1235	47.6	1139	9	US-09-820-84-A-15	Sequence 15, Appl
27	123	4.7	1325	10	US-09-864-761-35612	Sequence 35612, A
28	121.5	4.7	1478	10	US-09-861-368-52	Sequence 52, Appl
29	120	4.6	1347	9	US-10-083-857-1340	Sequence 1340, Ap
30	120	4.6	1544	9	US-10-074-475-285	Sequence 285, App
31	118	4.5	1347	9	US-10-083-857-1293	Sequence 1293, Ap
32	116.5	4.5	1702	9	US-09-854-144-434	Sequence 434, App
33	116.5	4.5	1702	9	US-10-144-649A-434	Sequence 434, App
34	116.5	4.5	1702	10	US-09-736-975-434	Sequence 434, App
35	116	4.5	639	10	US-09-825-144-9	Sequence 9, Appli
36	116	4.5	639	10	US-09-823-240-5	Sequence 5, Appli
37	116	4.5	912	9	US-09-987-482-2	Sequence 2, Appli
38	116	4.5	1192	10	US-09-789-386-2	Sequence 2, Appli
39	116	4.5	1192	10	US-09-893-346-23	Sequence 23, Appl
40	115.5	4.5	502	10	US-09-815-242-5904	Sequence 5904, Ap
41	115.5	4.5	1530	9	US-10-118-513A-6	Sequence 6, Appli
42	115.5	4.5	1770	10	US-09-801-368-298	Sequence 298, App
43	115.5	4.5	2266	9	US-10-118-513A-14	Sequence 14, Appl
44	115	4.5	661	10	US-09-770-595A-22	Sequence 22, Appl
45	115	4.5	1481	10	US-09-871-900-40	Sequence 40, Appl

ALIGNMENTS

RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PIK3 RELATED DISEASES
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/001,445
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234/254
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids

; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
; NAME/KEY: Site
; LOCATION: (285)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US 10-102-806-606

Query Match 94.4%; Score 1717; DB 9; Length 843;
Best Local Similarity 99.4%; Pred. No. 3.5e-109;
Matches 829; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 183 HDSCFVEMQAQKVMHVSSAELNYSGLPYVGKHQLERNASNVKHHHRSSALGVYSYIPLVENPY 242
Db 1 HDSCFVEMQAQKVMHVSSAELNYSGLPYVGKHQLERNASNVKHHHRSSALGVYSYIPLVENPY 60

Qy 243 FSSWFPSGISSKMSLGLPEKQLGIVEFSSLLPTSSTSLPSYYNSHDSLSLNSPTNISSLL 302
Db 61 FSSWFPSGISSKMSLGLPEKQLGIVEFSSLLPTSSTSLPSYYNSHDSLSLNSPTNISSLL 120

Qy 303 NQESAVLAIAPEIDMFIPPPLPVRTPESFIVVEEAGEFSPNVPKSLSSAVKVKIGISLEW 362
Db 121 NQESAVLAIAPKIDDEIPPPLPVRIPESFIVVEEAGEFSPNVPKSLSSAVKVKIGTSLEW 180

Qy 363 CGCIEPKEEIGSVIIDPGSKSVKLSPKSSIHQQKSSPFPFIPGPIISPFFLAGEGCMQAQ 422
Db 181 GGISEPKEEIGSVIILPGSKSVKLSPKSSIHQQKSSPFPFIPGPIISPFFLAGEGCMQAQ 240

Qy 423 SIETYSISYPDIMENSTSSKQIEKIPTSFIPSSSQKILPNMPKSCNSCPNKPAESVQ 482
Db 241 SIETYSISYPDIMENSTSSKQIEKIPTSFIPSSSQKILPNMPKSCNSCPNKPAESVQ 300

Qy 483 SNNGSSFLNPGPANRPGEPKGPRNPPPTWNI 513
Db 301 SNNGSSFLNPGPANRPGEPKGPRNPPPTWNI 331

RESULT 3
US-09-822-295-18
; Sequence 18, Application US/09822295
; Patent No. US20020119561A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PIP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: Unknown
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/061,845
; FILING DATE: Unknown
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 241/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440

; FILEX: 07-4510
; INFORMATION FOR SEQ ID NO: 12:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

Query Match 55.9%; Score 1490.5; DB 10; Length 802;
Best Local Similarity 60.9%; Pred. No. 3e-93;
Matches 426; Conservative 54; Mismatches 135; Indels 13; Gaps 6;

Qy 1 PVIRDKHSGIESQAKHCIPEKNHILQADSYSPNLPKSIIKAAKMMNQ---QRIKMEIKES 57
Db 295 IVISDNHLGRETQAQCSIPEQSLTVEADSCPLDLPKNAMRDVKTTNQHSKQGAEAESTGG 354

Qy 58 SSFDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDKNADTTMKWQTKAPPIVGEPLQK 117
Db 355 SSIGLRTSIMNAKEELVLHSAKSSFSFNCLELNCGCNNKAVIIKNQQAKASGVVGEPLQK 414

Qy 118 HQSLLPGSSIIPPSCSNGKFVNAAGRYPNSKVPITTFTKSTPFFLIQCRETKEVDSKENFSY 177
Db 415 TQSGLPGSMLPGSCFSALPTNTADFYHNSKGIVKRIKSIPFFIQQKKIRDLAVGDGFSC 474

Qy 178 IFSQFHPSCFV--FMQAQKVMHVSSAELNYSLPYDSKHQIKNASNVSHHLASSALSVTSVIF 236
Db 475 LESQIHPHYSLRSLVQEVNHVSSEELNYSLP GACDASCVFPHCTPCALPVELYTS 529

Qy 237 IVENFTPSWWTNSTSGRMELPLFEKQDTVTTGSLLPTSSTSLFSYYNSHPSSLSLNSPT 296
Db 530 LAVFFIPSFFRNCALGRMSLLPERQLGAISPVALLTASSTTSFFYSNCHDFLVMNTLT 589

Qy 297 NISSLINQESAVLATAPHIIPEIPPPLPVRTPESFIVVEEAGEFSPNVPSSLSSAVKVKI 356
Db 590 SDSFFINQHTAVEAIASNTDLEIPPPLPERTPESFIVVEEAGEFSPSVTESL PLVVTP 647

Qy 357 SISLFWGSSSFSRFFSSVSLRSSNSVKLRSENSELHQDKSSPFFPLPIKTLSFFLADE 416
Db 648 GASPFTSGISEMKSHPSVLPTSENVKLPSPKLDPGQLSGSPPFFLPPCTLESFFLADE 705

Qy 417 DPMLALSTSTTSSYPPTIMENSTSSFQLLKTPSSFIFSKSLKTIFNMFSSIPNSTPFNE 476
Db 706 DPIQALSVLISSTSYPPTFTPNSTSSKQLCKTPSSFIFSKSSLKTIFNMFSSVPNSSSPSE 765

Qy 477 PALSVLPNGFSSFLNFCFANFLSEFEGFNFFFTWNI 513
Db 766 FIFSVLFKNSSSFLNFCFQNFPSKFKCPRNFFSAWNM 802

RESULT 3
US-09-801-368-108
; Sequence 108, Application US/09801368
; Patent No. US20020176865A1
; GENERAL INFORMATION:
; APPLICANT: Belsky, Robert
; APPLICANT: Call, Brian
; APPLICANT: Boehk, Peter
; APPLICANT: Holtzman, Dean
; APPLICANT: Maldon, Kevin
; APPLICANT: Maxon, Mary
; APPLICANT: Milne, Todd
; APPLICANT: Nu, US20020176865A1man, Thea
; APPLICANT: Boyer, John
; APPLICANT: Salena, Sofie
; APPLICANT: Sherman, Amir
; APPLICANT: Silva, Jeff
; APPLICANT: Summers, Eric
; TITLE OF INVENTION: Methods for Improving Secondary Metabolite Production in Fungi
; FILE REFERENCE: 109272.547
; CURRENT APPLICATION NUMBER: US/09/801,269
; CURRENT FILING DATE: 2001-03-07
; PRIOR APPLICATION NUMBER: US 09/487,558
; PRIOR FILING DATE: 2000-01-19
; PRIOR APPLICATION NUMBER: US 60/160,587
; PRIOR FILING DATE: 1999-10-20
; NUMBER OF SEQ ID NOS: 440
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 108
; LENGTH: 1367
; TYPE: PRT
; ORGANISM: Saccharomyces cerevisiae
US-09-801-368-108

Query Match 6.6%; Score 177; DB 10; Length 1367;
Best Local Similarity 22.3%; Pred. No. 0.0013;
Matches 182; Conservative 54; Mismatches 225; Indels 76; Gaps 12;

Qy 36 KSTTKAAKMMNQQPTKMFIKFSSSFDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDK 95
Db 209 KSSTTTSSTSESSTTTSSTSESSTTTSSTSESST--------TTSSTSESSISSSTTAPA 260

Qy 96 NADTTMKWQTKAPPIVGEPLQKHQSLLPGSSIIPPSCSNGKFVNAAGRYPNSKVPITTFTKS 155
Db 261 TPTTTSGTKEKPTPFT - - ---TTSGTKEKPTPP----EHDTTPGTKKKT 300

Qy 156 TPFFLIQCRETKEVDSKENFSYIFSQFHPSCFVFMQAQKVMHVSSAELNYSLPYDSKHQIK 215
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Qy 216 NASNVSHHLASSALSVTSVIFIVENFTPSWWTNSTSGRMELPLFEKQDTVTTGSLLPTSST 275
Db 360 PTPSSTTFSSSA--- ---PVTSSTTFSSSAPVTSSTTESSSAPVPTTPSSSTTESSSAP 407

Qy 276 FTSSTSLFSYYNSHPSSLSLNSPTNISSLINQESAVLATAPHIIPEIPPPLPVRTPESFIV 335
Db 410 VTSSTTPSSSAPVTSSTTPSSSAPVTSSTTPSSSAPVTSSTTESS---SAPVPTPSSSTT 466

Qy 336 VEEAGEFSPNVPSSLSSAVKVKISISLFWGSSSFSRFFSSVSLRSSNSVKLRSENSELHQD 395
Db 467 PSSSAPVTSSTTPSSSAPVPTPSSSTTPSSSAPVTSSTTPSSSAPVPTTPSSST 519

Qy 396 KSSPFFPLPIKTLSFFLADEDPMLALSTSTTSSYPPTIMENSTSSFQLLKTPSSFIFSKSL 455
Db 520 --TPSSSAPAPTP----------SSSTTPSSSAPVTSSTTESSSAPVPTPSS 559

Qy 456 KTIFNMFSSIPNSTPFNEPALSVLPNGFSSFLNFCFANFLSEFEGFNFFFTWNI 513
Db 560 STTPSSSTPVTSSTTPS -SSAPVPTPSSSTTPSSSA 594

RESULT 5
US-10-085-108-7
; Sequence 7, Application US/10085108
; Patent No. US20020176865A1
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie; BEAN-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULES CODING
; FOR
; TUMOR REJECTION ANTIGEN PRECURSORS OF MEMBERS OF THE MAG
; MAGE-B FAMILIES AND USES THEREOF
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 666 Fifth Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10103
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect

RESULT 6
US 10 207 655-79
; Sequence 79, Application US/10207655
; Publication No. US20030118592A1
; GENERAL INFORMATION:
; APPLICANT: Ledbetter, Jeffrey A.
; APPLICANT: Hayden-Ledbetter, Martha S.
; TITLE OF INVENTION: BINDING DOMAIN IMMUNOGLOBULIN FUSION PROTEINS
; FILE REFERENCE: 390069.401C1
; CURRENT APPLICATION NUMBER: US/10/207,655
; CURRENT FILING DATE: 2002-07-25
; NUMBER OF SEQ ID NOS: 426
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 79
; LENGTH: 1142
; TYPE: PRT
; ORGANISM: Homo sapiens
US 10 207 655-79

Query Match 6.1%; Score 162.5; DB 9; Length 1142;
Best Local Similarity 22.9%; Pred. No. 0.01;
Matches 141; Conservative 79; Mismatches 223; Indels 134; Gaps 30;

RESULT 7
US 09 822 295-2
; Sequence 16, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF

PTP04 RELATED DISORDERS
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Fastseq for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/822,295
FILING DATE: 02-Apr-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/061,415
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 234/253
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 30 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
SEQUENCE DESCRIPTION: SEQ ID NO: 16:
US-09-822-295-16

Query Match 6.0%; Score 161; DB 10; Length 30;
Best Local Similarity 100.0%; Pred. No. 8.7e-05;
Matches 30; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 205 YSIPYDSEHQIPNASNVFHHDSSAIGVYSY 234
Db 1 YSIPYDSEHQIPNASNVFHHDSSAIGVYSY 30

RESULT 8
US-09-899-651-2
; Sequence 2, Application US/09899651
; Patent No. US20020011470A1
; GENERAL INFORMATION:
; APPLICANT: Chen, Yao-Tseng
; APPLICANT: Gure, Ali
; APPLICANT: Isaac, Selam
; APPLICANT: Stockert, Elisabeth
; APPLICANT: Saner, Elke
; APPLICANT: Keith, Alexander
; APPLICANT: Ji, Lloyd J.
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer
; TITLE OF INVENTION: Associated
; TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof
; FILE REFERENCE: LUD 5538
; CURRENT APPLICATION NUMBER: US/09/899,651
; CURRENT FILING DATE: 2001-07-06
; PRIOR APPLICATION NUMBER: US/09/061,739
; PRIOR FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
; LENGTH: 134,
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
US-09-899-651-2

Query Match 5.9%; Score 157.5; DB 10; Length 1142;
Best Local Similarity 22.9%; Pred. No. 0.022;
Matches 131; Conservative 76; Mismatches 226; Indels 139; Gaps 30;

RESULT 9
US-09-822-295-17
; Sequence 17, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0

; SOFTWARE: FastSEQ for Windows Version 4.0
; APPLICANT INFORMATION:
; APPLICANT: Baselbeck, Robert
; APPLICANT: Ohlsen, Kari L.
; APPLICANT: Zyskind, Judith W.
; APPLICANT: Wall, Daniel
; APPLICANT: Trawick, John D.
; APPLICANT: Carr, Grant J.
; APPLICANT: Yamamoto, Robert T.
; APPLICANT: Xu, H. Howard
; TITLE OF INVENTION: Identification of Essential Genes in
; TITLE OF INVENTION: Prokaryotes
; FILE REFERENCE: ELLIKA.011A
; CURRENT APPLICATION NUMBER: US/09/815,242
; CURRENT FILING DATE: 2001-03-21
; PRIOR APPLICATION NUMBER: 60/191,078
; PRIOR FILING DATE: 2000-03-21
; PRIOR APPLICATION NUMBER: 60/206,848
; PRIOR FILING DATE: 2000-05-23
; PRIOR APPLICATION NUMBER: 60/207,727
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: 60/242,978
; PRIOR FILING DATE: 2000-10-23
; PRIOR APPLICATION NUMBER: 60/253,625
; PRIOR FILING DATE: 2000-11-27
; PRIOR APPLICATION NUMBER: 60/252,941
; PRIOR FILING DATE: 2000-12-22
; PRIOR APPLICATION NUMBER: 60/269,408
; PRIOR FILING DATE: 2001-02-16
; NUMBER OF SEQ ID NOS: 14110
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 12714
; LENGTH: 2344
; TYPE: PRT
; ORGANISM: Staphylococcus aureus
US-09-815-242-12714

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Best Local Similarity 22.0%; Pred. No. 0.78;
Matches 116; Conservative 78; Mismatches 236; Indels 98; Gaps 20;

Qy % GIIEFQAKRTIELRNRIL-AIEGEN- IEFIIKAAKMMN-EIT KMEIE 55
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Qy 56 FSSSEIDAS SLIAKGIVMHEAFSSIPFEP FIDNSIEGKNAGIMMF 102
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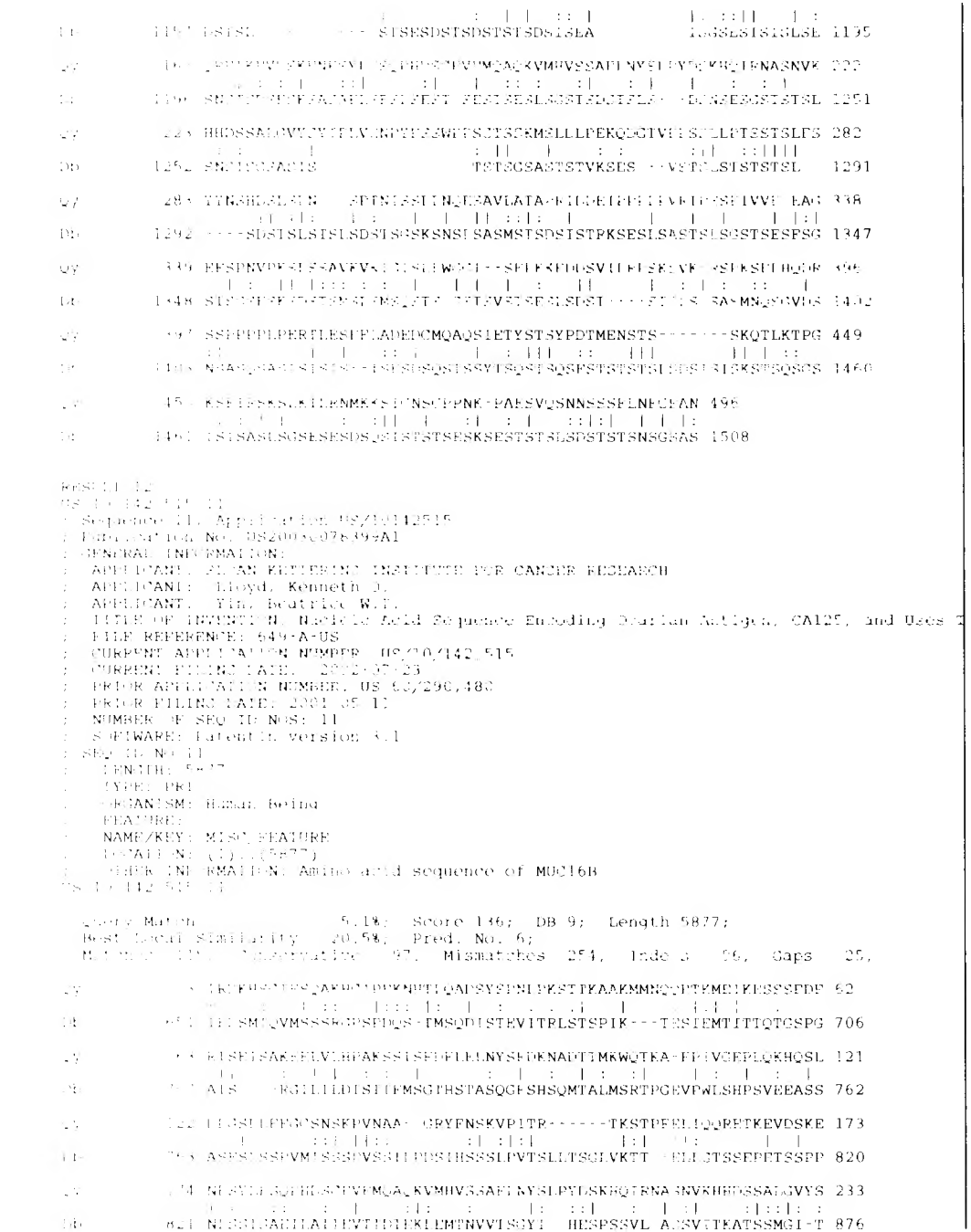

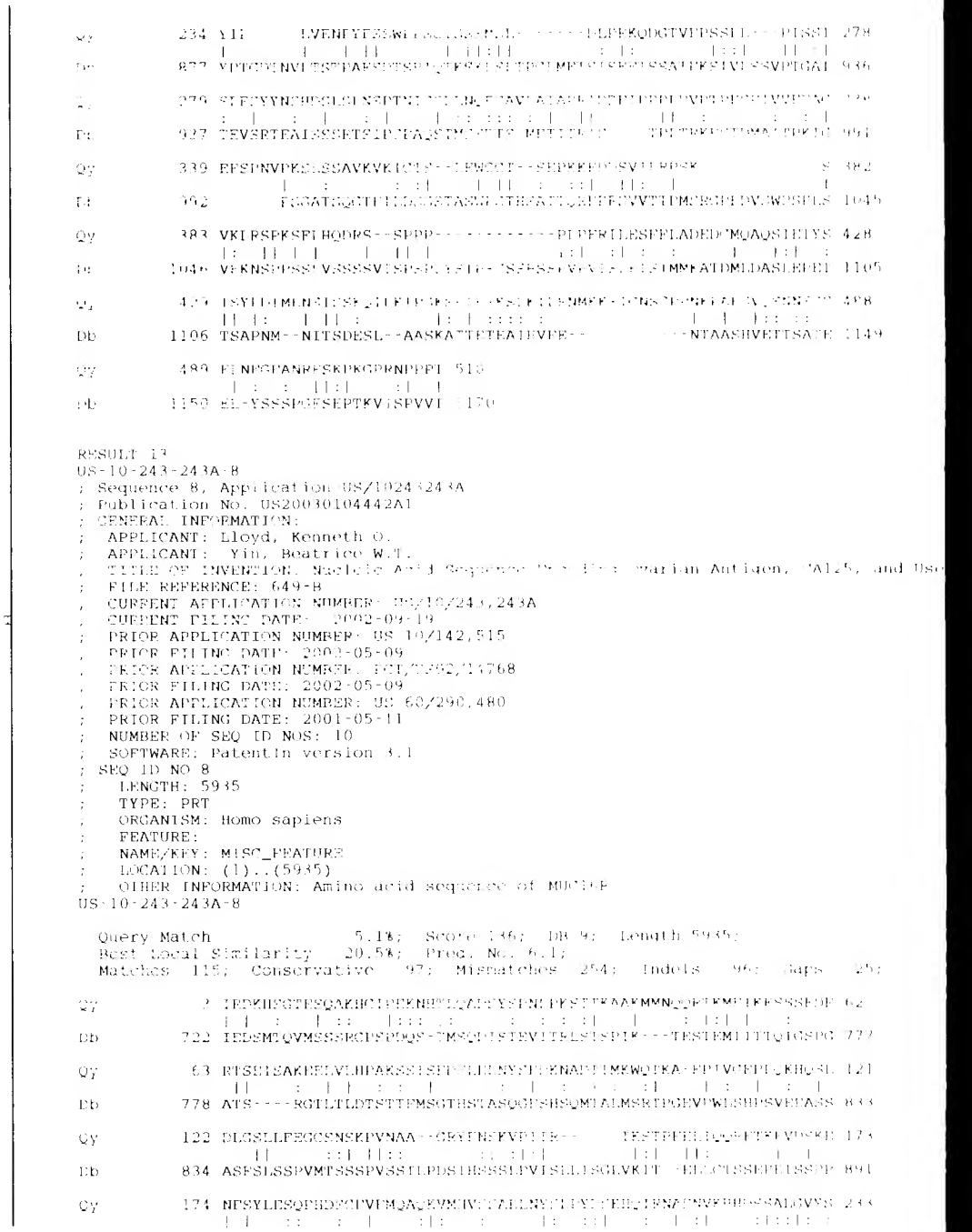

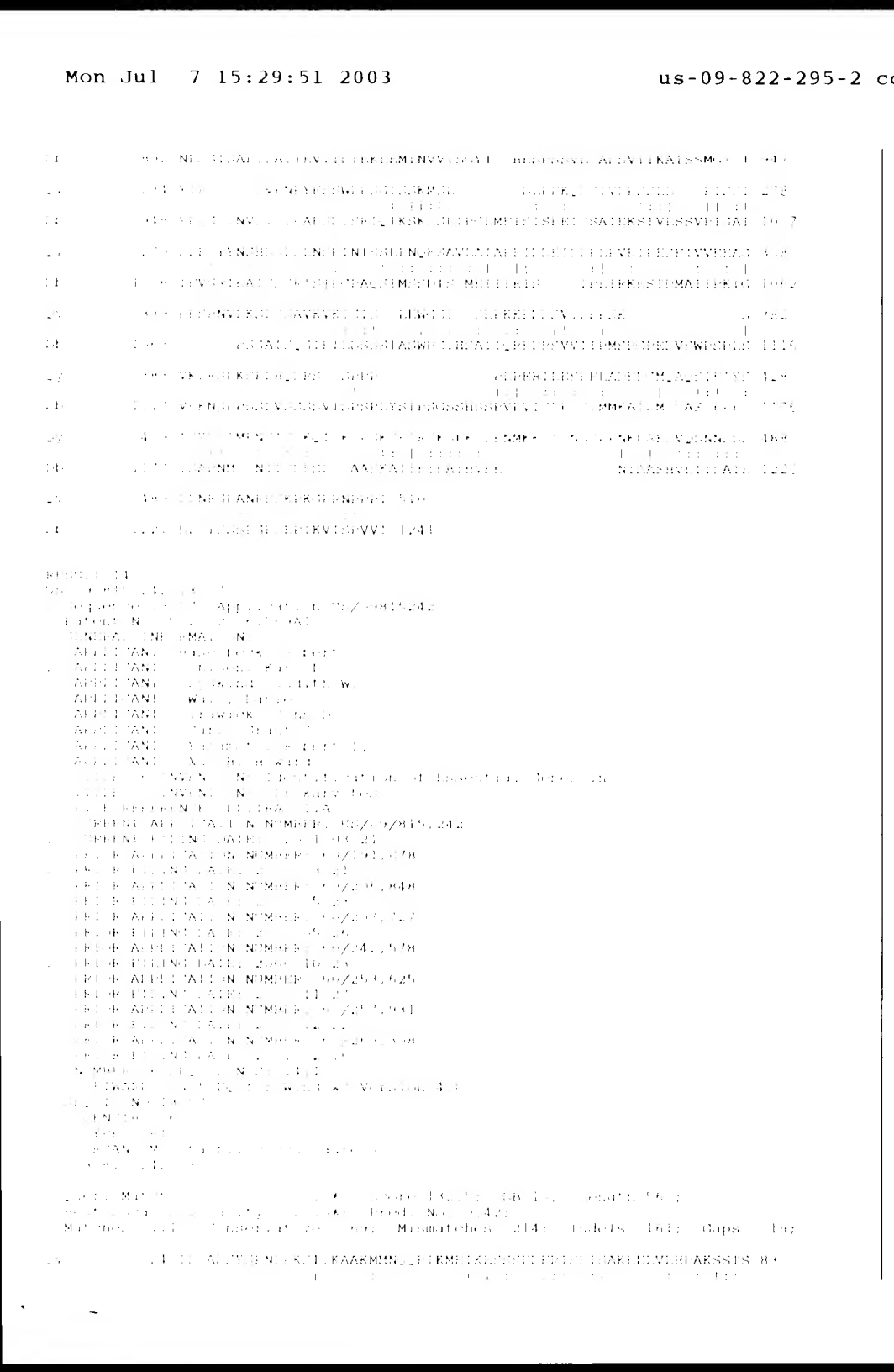

RESULT 15
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; Sequence 3, Application US/09932257A
; Publication No. US20030039658A1
; GENERAL INFORMATION:
; APPLICANT: Estable, Mario
; APPLICANT: Roeder, Robert
; TITLE OF INVENTION: MTEF A No. US20030039658A1e1 Transcription Factor
; FILE REFERENCE: 600 1 269N
; CURRENT APPLICATION NUMBER: US/09/932,257A
; CURRENT FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: 60/226,340
; PRIOR FILING DATE: 2000-08-18
; PRIOR APPLICATION NUMBER: 60/226,339
; PRIOR FILING DATE: 2000-08-18
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: Patentin version 3.1
; SEQ ID NO 3
; LENGTH: 1163
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1086)..(1086)
; OTHER INFORMATION: X is any amino acid
US-09-932-257A-3

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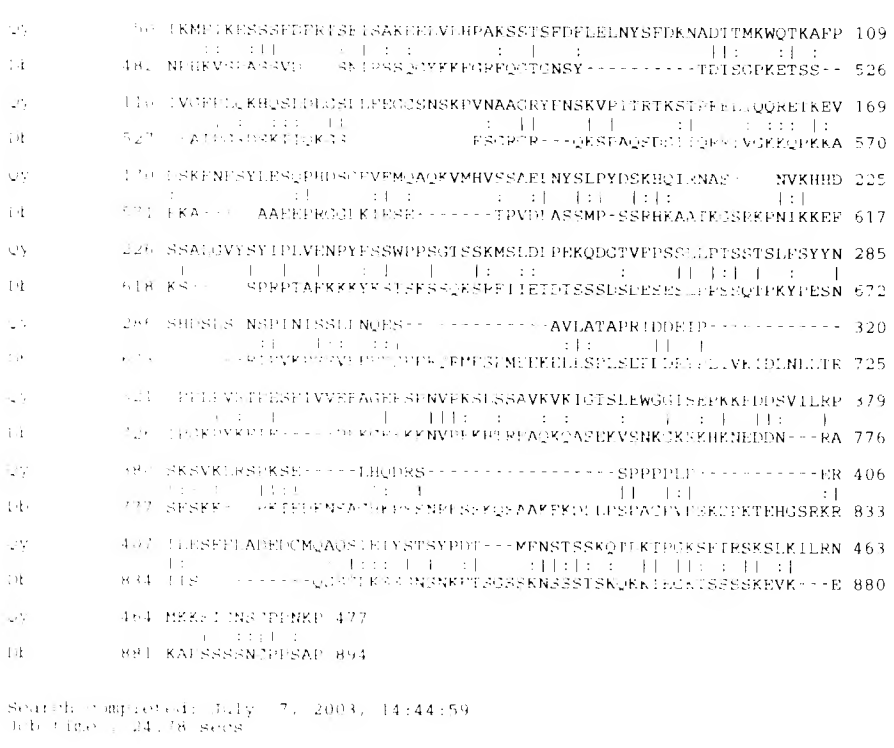
Best Local Similarity 19.7%; Pred. No. 1.2;
Matches 109; Conservative 78; Mismatches 209; Indels 158; Gaps 25;



Search completed: July 7, 2003, 14:44:59
Job time : 24.78 secs

GenCore version 5.1.6

OM protein - protein search, using sw model

Run on: July 7, 2003, 14:22:05 ; Search time 9.72819 Seconds
(without alignments)
1551.569 Million cell updates/sec

Title: US-09-822-295-2_COPY_295_807
Perfect score: 2667
Sequence: 1 DVIRDKHSGTESQAKHCIPE.....FANRFSKPKGPENPPPTWNT 513

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
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Prod. N. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	2667	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	1490.5	55.9	832	4	US-09-081-345-18	Sequence 18, Appl
3	1022.5	38.3	1142	2	US-08-993-118-7	Sequence 7, Appli
4	1022.5	38.3	1142	3	US-08-845-528C-7	Sequence 7, Appli
5	161	6.0	30	4	US-09-081-345-16	Sequence 16, Appl
6	153.5	5.8	1142	4	US-09-061-709-2	Sequence 2, Appli
7	152.5	5.7	2137	4	US-09-134-001C-4463	Sequence 4463, Ap
8	149	5.6	30	4	US-09-081-345-17	Sequence 17, Appl
9	148.5	5.6	31	4	US-09-081-345-15	Sequence 15, Appl
10	130.5	4.8	3224	2	US-08-705-660-34	Sequence 34, Appl
11	130.5	4.8	3224	3	US-08-989-045-34	Sequence 34, Appl
12	127	4.8	2843	1	US-07-741-946-2	Sequence 2, Appli
13	127	4.8	2843	1	US-08-289-548A-2	Sequence 2, Appli
14	127	4.8	2843	1	US-08-452-654-2	Sequence 2, Appli
15	127	4.8	2843	2	US-08-470-235A-2	Sequence 2, Appli
16	127	4.8	2843	4	US-08-449-731-2	Sequence 2, Appli
17	125.5	4.7	897	3	US-08-975-703-6	Sequence 6, Appli
18	125.5	4.7	897	4	US-09-515-884-6	Sequence 6, Appli
19	124.5	4.7	2842	1	US-07-741-949-7	Sequence 7, Appli
20	124.5	4.7	2842	1	US-08-289-548A-7	Sequence 7, Appli
21	124.5	4.7	2842	1	US-08-452-654-7	Sequence 7, Appli
22	124.5	4.7	2842	4	US-08-449-731-7	Sequence 7, Appli
23	124.5	4.7	2843	1	US-08-452-655B-2	Sequence 2, Appli
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25	124.5	4.7	2843	3	US-08-450-582-2	Sequence 2, Appli
26	124.5	4.7	2843	3	US-08-450-582-7	Sequence 7, Appli
27	124.5	4.7	2973	2	US-08-821-355A-7	Sequence 7, Appli
28	124.5	4.7	2973	2	US-09-503-687A-7	Sequence 7, Appli
29	124.5	4.7	2973	4	US-09-136-605-7	Sequence 7, Appli
30	124	4.6	751	4	US-09-492-925-2	Sequence 2, Appli
31	121	4.5	1068	1	US-08-396-479B-12	Sequence 12, Appl
32	121	4.5	1068	1	US-08-818-823-12	Sequence 12, Appl
33	120	4.5	2409	6	5780808-2	Patent No. 5780808
34	118	4.4	976	4	US-08-844-997-50	Sequence 50, Appl
35	117.5	4.4	834	1	US-08-471-044-21	Sequence 21, Appl
36	117.5	4.4	834	3	US-08-471-044-21	Sequence 21, Appl
37	117.5	4.4	834	3	US-08-463-488-21	Sequence 21, Appl
38	117.5	4.4	834	2	US-08-471-046A-21	Sequence 21, Appl
39	117.5	4.4	834	2	US-08-470-566B-21	Sequence 21, Appl
40	117.5	4.4	834	3	US-08-469-434-21	Sequence 21, Appl
41	117.5	4.4	834	3	US-09-300-529-21	Sequence 21, Appl
42	117	4.4	907	3	US-08-784-774-2	Sequence 2, Appli
43	117	4.4	907	4	US-09-328-599A-1	Sequence 1, Appli
44	117	4.4	907	5	PCT-US95-04611A-19	Sequence 19, Appl
45	116	4.3	1075	5	PCT-US94-07297-41	Sequence 41, Appl

ALIGNMENTS

RESULT 1
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; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PPP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 394253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 2667; DB 4; Length 807;
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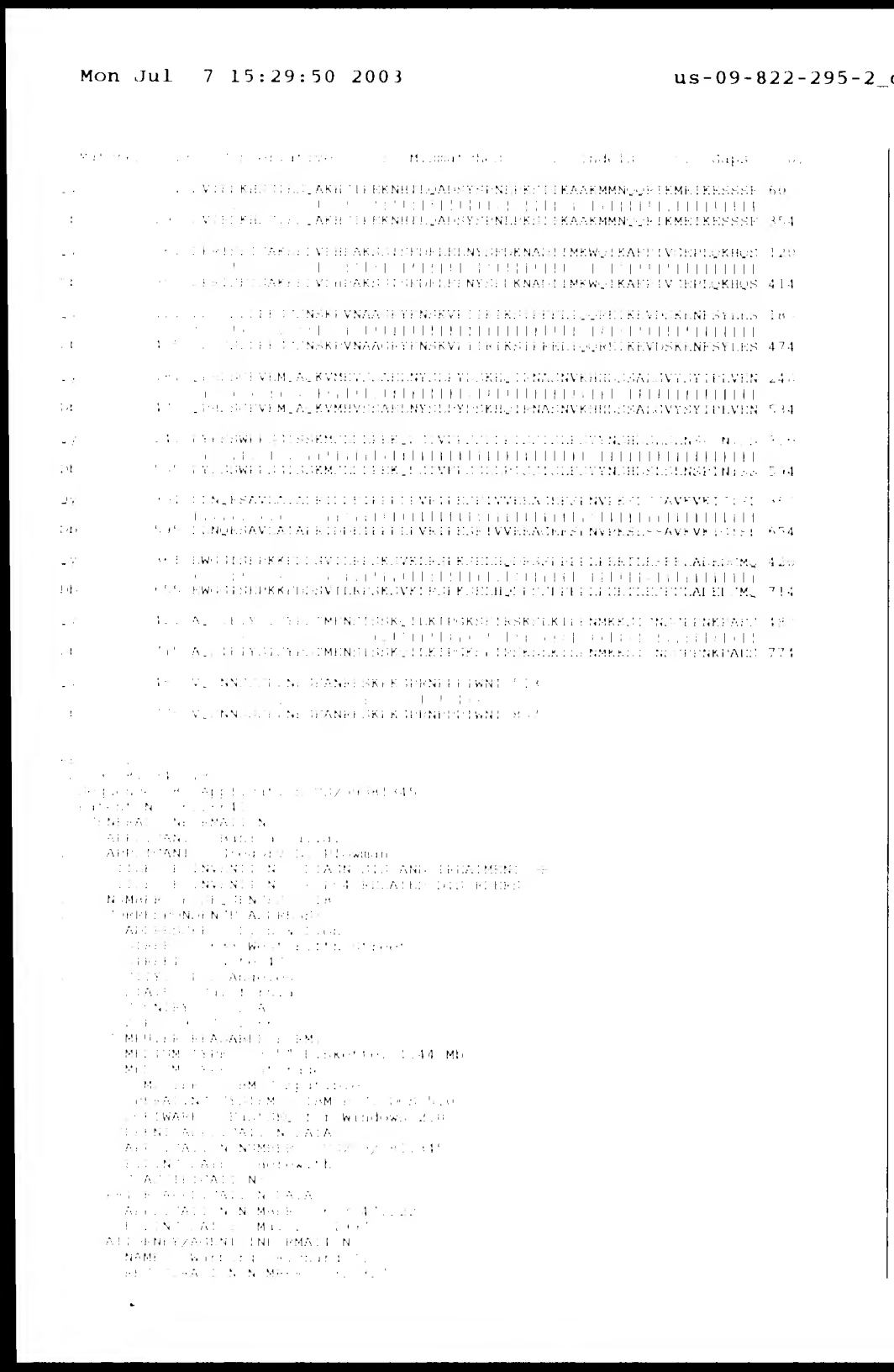

; KEEPING/FILE NUMBER: 271,253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489 1600
; TELEFAX: (213) 955 0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 8:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-18

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Best Local Similarity 60.98%; Pred. No. 3.3e-118;
Matches 31%; Conservative 54; Mismatches 135; Indels 13; Gaps 6;

RESULT 3
US-08-993-118 7
; Sequence 7, Application US/08993118
; Patent No. 5997872
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: RECEPTION ANTIGEN PRECURSOR MADE OF AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Folie & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA

; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: [illegible] inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/393,118
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528
; FILING DATE: April 25, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1142
; TYPE: amino acids
; STRANDEDNESS: single-stranded
; TOPOLOGY: linear
US-08-845-528C-7

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Best Local Similarity 22.9%; Pred. No. 4.4e-05;
Matches 131; Conservative 79; Mismatches 223; Indels 139; Gaps 30;

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RESULT 4
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; Sequence 7, Application US/[illegible]
; Patent No. 6027924
; GENERAL INFORMATION:
; APPLICANT: LUCAS, Sophie;
; APPLICANT: DE SMET, Charles;
; APPLICANT: BOON-FALLEUR, Thierry
; TITLE OF INVENTION: ISOLATED NUCLEIC ACID MOLECULE CODING FOR TUMOR
; TITLE OF INVENTION: REJECTION ANTIGEN PRECURSOR MAGE-C1 AND USES
; TITLE OF INVENTION: THEREOF
; NUMBER OF SEQUENCES: 14
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Foley & Lynch
; STREET: 685 Third Avenue
; CITY: New York City
; STATE: New York
; COUNTRY: USA
; ZIP: 10022
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM PS/2
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/845,528
; FILING DATE: April 25, 1997
; CLASSIFICATION: 4335
; ATTORNEY/AGENT INFORMATION:
; NAME: Mary Anne Schofield
; REGISTRATION NUMBER: 36,669
; REFERENCE/DOCKET NUMBER: LUD 5455
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1142
; TYPE: amino acids
; STRANDEDNESS: single-stranded
; TOPOLOGY: linear
US-08-845-528C-7

Query Match 6.1%; Score 162.5; DB 3; Length 1142;
Best Local Similarity 22.9%; Pred. No. 4.4e-05;
Matches 131; Conservative 79; Mismatches 223; Indels 139; Gaps 30;

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Qy         128      PEGCQNSKDVNAAGEFFNSFVSIEAT KSFFFLLAFIFIVLSELNLSLEFQ 181
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Qy         280 LPSYY      NSHDSLSLN----SPTNISSLLNQESAVLATAPRIDDEIPPP-----LP 324
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Qy         325 VEIPPSFIVVEEAGEFSPNVPKSLSSAVKVKTGTSLEWGGTSEPKKFDLSVILRPSKSVK 384
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Qy         423 SIEITSIS----  YPDTMENSTSSKQTLKTPGKSFTPSKSLKILPNMKFSICNSCPPNKP 477
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Qy         478 AESVQSNNSSSPFLNFGHANKF SKPKGPRNPP 508
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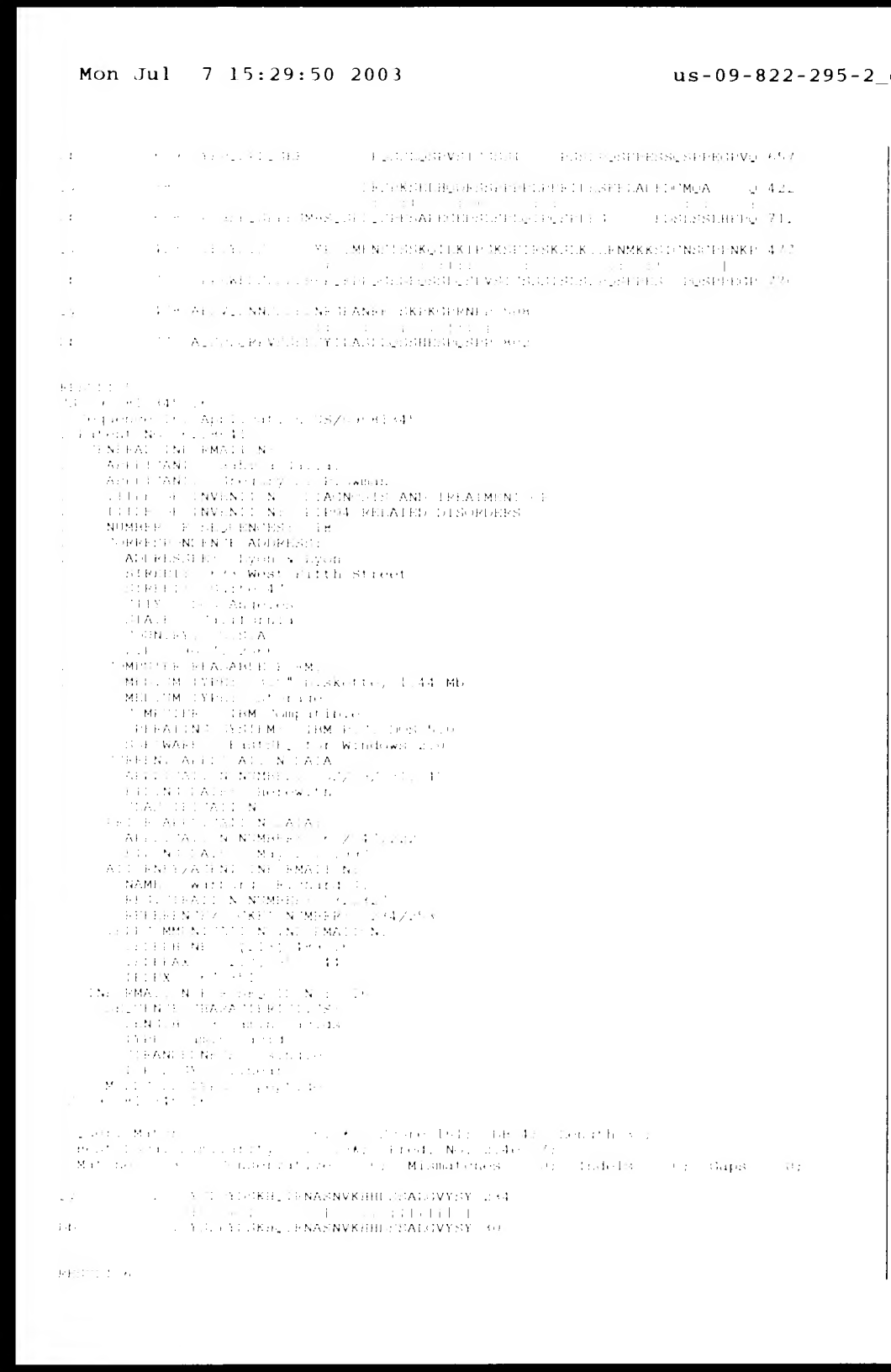

US-09-061-709-2
; Sequence 2, Application US/09061709
; Patent No. 6207364
; GENERAL INFORMATION:
; APPLICANT: Chen, Yao-Tseng
; APPLICANT: Gure, Ali
; APPLICANT: Isana, Solam
; APPLICANT: Stockert, Elisabeth
; APPLICANT: Jager, Elke
; APPLICANT: Knuth, Alexander
; APPLICANT: Old, Lloyd J.
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated
; TITLE OF INVENTION: Antigen, The Antigens Per Se, And Uses Thereof
; FILE REFERENCE: LUD 5548
; CURRENT APPLICATION NUMBER: US/09/061,709
; CURRENT FILING DATE: 1998-04-17
; NUMBER OF SEQ ID NOS: 8
; SEQ ID NO 2
; LENGTH: 1142
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
US-09-061-709-2

Query Match 5.9%; Score 157.5; DB 4; Length 1142;
Best Local Similarity 22.9%; Pred. No. 0.00012;
Matches 131; Conservative 76; Mismatches 226; Indels 139; Gaps 30;

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Qy          19 PEKNs:tQAdSYSP:NLPESLtkAAkMMNQQQtEMEtKESSSFDFKGSGtSAkEELVLH  76
               ||:   | :  : ||  :| | : :: :::   ::  |  :|:   |  | | :
Db         288 PERTQSTFEGFAQSPLQIPVSPSFSSTLVSIFQSSPERTQSTFEGFTQSPLQI       340

Qy          77 PAKSSPSPIGFLGLNYSTGKNADTIMKWLTKAIETVGEPLQKHQSLDGKSLL         127
               | |||  | | |  |  :|    :||    |||   |    | | |
Db         341 PVSSSFSSITLSIFQSSPFTQSIF    FGFP  QSPLQIPASPSFSSTLLSLFQSSPE 394

Qy         128       PEPCCNCEEVNAAGEYECFVPCIEI ECTTEELLQEECEIVICFENPSYLESQ 181
                     |||   | ||          :::|: :  ||   :::|          : | |    |
Db         395 RTHSTFEGFPQS-PL-- -  -  QIPMISSFSSTLLSTLQSSPESAQSAFEGFPQSPLQ 444

Qy         182 THE:::V:M:A:EVMGV  A: NG      :: Kn:tkA:TNVEGL  SALGVLSYIP 236
               | : :           :  | |  ::      |  |  ||  :|:      | : ::   |
Db         445 IPVSSSF--SYTLLSLFQSSPERTHSTFEGFP QSPLQIPVSSS  SSSSTLLSLFQSSP 499

Qy         237 LVENPYFSSW-  -        PDSGISSKMSL    DLPEKQDEI    VFFSSILFISSIS 279
               |  :          | : ::  |     |:| :|       | :  :   |
Db         500 ECTQSTFEGFPQSPLQIPQSPFEGENTHSPLQIVFSLFEWFEGLSPEYFPQS PFQGEES 559

Qy         280 LPSYY       NGHDGSLSLN     QEINISSLLNGLDAVLAIAGRELEFIPEP     IE 324
               | :|         ||  :    |  :|          :|    : :       |
Db         560 LSTHFFPQSFPQGEDSLSFHYFFQSFQGDGS.           GFRTFLQSFL  EESSMSF 608

Qy         325 VETILGFLVVLEAGLLGNVLVLSVLKHKSLHSPMYLFICSLAWTDLLGLSLVAPKILEF  384
               :  |:: :  ||          || | | :   ::     :| |: | ::    |  |:
Db         609 LYFPQSPFQGPF------- PQSSLQSPVSIGSSSI----PSSLPQSPLFSSQSPFEGFVQ 657

Qy         385 ----------------- LRSPKSELHQDRSSPFPPLPERTLFSFFLADEDCMQA - -QG 422
                               |:| :|    :  |  :|:  ||       :| :  :    |
Db         658 SPLHSPQSPPEGMHSQSPLQSPFSAPFCPDSLSPLQIPQSPLRG-   --EDSLSSLHFPQ 712

Qy         423 GIEYVLL       Y:::MtMa:::A:::Ah:A:::Ih:Ah:Ih:A:::AMMPA::'A:'::N&P 472
               |   : |      :|          : :|:::    : : || : :::  :|    |  |
Db         713 SPPEWEDSLSPLHFPQFPPQGEDFQSSLQSPVSI'SSSISLSLIPQSLFES  PQSFPIGP 770

Qy         473 AESVQSNNSGSFLNFGPANFF CKFKGCFENPP 508
               |:|      ||| ::  |:   |  : |:::||
Db         771 AQSPLQRPVSSFFSYILASLLQSSHESPQSPP 802

RESULT 7
US-09-134-001C-4463
; Sequence 4463, Application US/09134001C
; Patent No. 6380370
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; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO STAPHYLOCOCCUS
; TITLE OF INVENTION: POLYPEPTIDES FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: GEN-007
; CURRENT APPLICATION NUMBER: US/09/134,001C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/064,964
; PRIOR FILING DATE: 1997-11-08
; PRIOR APPLICATION NUMBER: US 60/055,779
; PRIOR FILING DATE: 1997-08-14
; NUMBER OF SEQ ID NOS: 5674
; SEQ ID NO 4453
; LENGTH: 2137
; TYPE: DNA
; ORGANISM: Staphylococcus epidermidis
US-09-134-001C-4453

  Query Match              5.7%;  Score 152.5;  DB 4;  Length 2137;
  Best Local Similarity   20.8%;  Pred. No. 0.0008;
  Matches  104;  Conservative   73;  Mismatches  273;  Indels   49;  Gaps   11;

Qy          8 SSIESLAFHYIPKNA--GAAVSVSLDPKSITEAAKMMNQLFTKMLIKTGSSTPDFTSKI 67
              ||: | :  :  :    :|| | :  :| :  :|    : :      : :|:|    |||
Db       1566 SSSISIS---VSDSTSTSISDSASASTSFSDSDSASTSSSESVSTSVSDSTSAS--TSES 1620

Qy         68 SAKFFIVLHPAKSSISMPFLFLNYSFDKNADITMKWQTKAFPIVGFFLQKHQSIDLCSLL 127
              ::    |     :'||   |  : |   :  |:|     |      |     | |
Db       1621 ASISISVSDSNSASIS--LSESTSTSLSDSTSMSTSDSASTSTSESDSDSASTSLSDST 1677

Qy        128 PPQSNSKFVNAACPYSNSFVPLIKFESTPFSLIQQPETFEVDS---------KFNFSYI 178
                |'      ::   :: : ||   |  | |  ||      :|
Db       1678 STSVSFSTST------ STSTSVSASNSTSTSLSDSRSTSLSDSISTSTSESGSTSTSES 1720

Qy        179 PSQHHDSTPVFMQAQEKMHVSQALNTSLPYQSKHQTSNASNVKHLQELALCVYSYTEV 238
              :|    :  |  :  :  :|  : |          | ::    ||.. |
Db       1721 DSDSASTSLSFSTSTSTSDSTSTSTSDSASTSMSVSDSNPASTSLSQS STSVSDSTSAS 1780

Qy        239 PNTTLCWHTLTTELFKLQLFPEQFSTVTFQQLLPTS  GTPLICYSFHDSLSLNSP 295
              :  :;      |: |  | |    :|  |:   ||   |||      :: :| ||:
Db       1781 TSFSASTSIFFSLSTSASTSLSFSTTSTSVSTSTSTSTSDSASTSTLFSLSNSSTSLSFS 1840

Qy        296 INTP  SILNQLSAVLAIAPDIDPFIPPLPVSTPEPFIVVEEACTPPQNVPKSLPSAV 352
              : :  :     :| :|:  : |          :     :'    :|  | |::
Db       1841 TSTSVSTSTSASTSASASTSTSVSD           SNSASTSLSSTSTSTSVSDSTSTST 1889

Qy        353 KVKTTLPTWSTTSPFKSTTSSVTLKPQKSVKLRSPKSELHQDPSTTPPQLPERPLESPF 412
                  :|:     |  | | |  :     |  | :      |
Db       1890 SASASTS ----TSDSTSLSASTSLSGSTSTSTSDSTSTSTSDSASS--TSTSESASTSTS 1942

Qy        413 LAFTPMLAQSIEIYGIPTIDTMENGTGGKQTLAIPGKSTTASKLKTLANMKKGTCNSC 472
              :::          : |||  |:   |||   :  |  :| : |:|  :  :   || :|
Db       1943 VSSTTPSTSVSESSFSTVSTSTSTSSSASASTST-SESESTSESTSVSESSSTSTSDSS 2001

Qy        473 PQNKPAEDVQSNNGGGCN 491
              :  : :: | ' :|
Db       2002 STSTSMSTSETTSQSTN 2020


RESULT 8
US-09-081-345-17
; Sequence 17, Application US/09081345
; Patent No. 6228841
; GENERAL INFORMATION:
;   APPLICANT:  Bahija Jallal
;   APPLICANT:  Gregory D. Plowman
;   TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;   TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;   NUMBER OF SEQUENCES:  18
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Lyon & Lyon
;     STREET:  633 West Fifth Street
;     STREET:  Suite 4700
;     CITY:  Los Angeles
;     STATE:  California
;     COUNTRY:  U.S.A.
;     ZIP:  90071-2066
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;     MEDIUM TYPE:  storage
;     COMPUTER:  IBM Compatible
;     OPERATING SYSTEM:  IBM P.C. DOS 5.0
;     SOFTWARE:  FastSEQ for Windows 2.0
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/09/081,345
;     FILING DATE:  herewith
;     CLASSIFICATION:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:  60/047,222
;     FILING DATE:  May 20, 1997
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Warburg, Richard J.
;     REGISTRATION NUMBER:  32,327
;     REFERENCE/DOCKET NUMBER:  [illegible]
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  (213) 489-1600
;     TELEFAX:  (213) 955-0440
;     TELEX:  67-3510
;  INFORMATION FOR SEQ ID NO:  17:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  30 amino acids
;     TYPE:  amino acid
;     STRANDEDNESS:  single
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  peptide
US-09-081-345-17

  Query Match              5.6%;  Score 150;  DB 4;  Length 30;
  Best Local Similarity   100.0%;  Pred. No. 2.5e-06;
  Matches   29;  Conservative    0;  Mismatches    0;  Indels    0;  Gaps    0;

Qy          2 RPLQAPSVSPNLPPSTPKAAPMMNQLFTK 31
              |||||||||||||||||||||||||||||
Db          1 RPLQAPSVSPNLPPSTPKAAPMMNQLFTK 30


RESULT 9
US-09-081-345-15
; Sequence 15, Application US/09081345
; Patent No. 6228841
;  GENERAL INFORMATION:
;    APPLICANT:  Bahija Jallal
;    APPLICANT:  Gregory D. Plowman
;    TITLE OF INVENTION:  DIAGNOSIS AND TREATMENT OF
;    TITLE OF INVENTION:  PTP04 RELATED DISORDERS
;    NUMBER OF SEQUENCES:  18
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Lyon & Lyon
;      STREET:  633 West Fifth Street
;      STREET:  Suite 4700
;      CITY:  Los Angeles
;      STATE:  California
;      COUNTRY:  U.S.A.
;      ZIP:  90071-2066
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  3.5" Diskette, 1.44 Mb
;      MEDIUM TYPE:  storage
;      COMPUTER:  IBM Compatible
;      OPERATING SYSTEM:  IBM P.C. DOS 5.0
;      SOFTWARE:  FastSEQ for Windows 2.0
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/09/081,345
;      FILING DATE:  Herewith
;      CLASSIFICATION:
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  60/047,222
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;     ATTORNEY/AGENT INFORMATION:
;       NAME:  GRIFFNHAGH, DUNCAN A
;       REGISTRATION NUMBER:  38,678
;       REFERENCE/DOCKET NUMBER:  MSC 023 (8435/27)
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  (+17) 248-7000
;       TELEFAX:  (+17) 248-7100
;   INFORMATION FOR SEQ ID NO:  44:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  4224 amino acids
;       TYPE:  amino acid
;       STRANDEDNESS:
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  peptide
US-08-[illegible]-044-44

  Query Match                4.8%;  Score 128.5;  DB 3;  Length 4224;
  Best Local Similarity   20.4%;  Pred. No. 0.16;
  Matches  121;  Conservative   67;  Mismatches  226;  Indels  217;  Gaps   33;

Qy          2 VTSGPEQSS--------TSSQAEHCTPEKNHTLQAD          -  -  SVSFNLPK 36
              ::: | |||         |  | |    || : |                  |:  |||
Db       1221 IIRHFTSFSISIIMS-P-QVVI-I--ANHYTSFSMFITFNATSSFSTVWRAIPYAFFLPK 1277

Qy          37 SIIKAAKMMNQQPI---KMPIKESSSF---------DFPTSEISAKEELVLHPAKSSTSF 84
               |  :   :  | : :|: |                 :  :|    |  | |
Db       1278 PSQIAIRPKTIEEAALPPQTEEFAQSIIKAPGTNVAMASNQAVPIVEEPTSHDNKDICKS 1337

Qy          85 DFLELNYSFD----------------KNADTTMKWQTKAFPIVCEPLQKHQSLDLGSLLF 128
               |   | : |                ||| |   |  :
Db       1338 DAGNLNFEPQVAKKEGSWWHCNSCSLKNASTAKKCVS------------------------ 1374

Qy         129 EGCSNLPTVN  ASNFTPNSFPVPITFTFQTDF    FLIQQFETKPVTSYP-     NFSYL 178
                 | |  :  ,                 |:  |  ||    | :| |          ||     :   :
Db       1375  -LSLNIPNEELVI       IFIAFTVFTPFSTSPFNVIFPFAIVIIPFKPCIPWFCSICIV 1429

Qy         179 FSLPDNSTFVENQAQKVMHVCSAELNY          SLPYLSKHQ:sNASNVE--HHDSS 227
               :::  |  :  |  |  | |  :          ||        |:  : |    | |
Db       1427 KNEPTVSPTIAI_NTELSANKSSLSIVHLASFKI QSLLPKFINSC'KSVFSTKFGQWF'S 1486

Qy         228 ALSVYSYIPLVENDYFFSWDPSCTSSK-MSLDLPFKQDCIVPPSSLIPTSSTSLPSYYNS 286
                  |:|         |:|| :   | ||     |:: :|| ::   | : |
Db       1487 W        IVQN        GSSGIKCAACQNFKQS  IFAIGIIFFAS  FKFCTS 1526

Qy         287 HDSLSINS- ----------PTNISSLL--NQFSAVLATAPRIDDEIPPPLPVRTPESFIV 333
               | :  /            : || |  |: :|    | :  |:  |   |  | | ||
Db       1527 EISEIIASSFEEIMEAKEESQWLCSSCLVFNFANATFCVACQNPDKPSPSTSVPAPASF-- 1584

Qy         334 VTPAIIPSPNVTPSISSAVEVKTGTS          -LSWGCTSEPKSFDDSVIL-----PP 379
                                 | |||            |  | :  :|| | |
Db       1585 ------------------ ---KFGTSEISKAPKSGFEGMFTKKEGQWDCSVCLVRNFASA 1623

Qy         380 SKSVKLKSP-------KSELHQDPSSPPPPLFERTLESEFLADE---DCM------QAQSI 424
               ::  :  ::|       | :    ||      |:   |  |    |   ||       :| :
Db       1624 IKCIACQNPGKQNQIISAVSIPASSFISKAFKSGFFGMFIKKEGQWDCSVCLVRNFASAT 1683

Qy         425 ETYSISYPDTMENSTS------SKQTLKTPCKS----FTPSK-----SLKTLRN---MKK 466
               :  :  |    :||      | :| | |        ||: :     |:  :||     |
Db       1684 ITCIACQNPGKQNQIISAVSIPASSFISKAFKSGFFGMFIKKEGQWDCSVCLVRNFASAIK 1743

Qy         467 SIINSVPNKFALSVQSNNSSSILN----ECFANRFSKPKG 503
               |    :   :   :   :||  ::     ||    | : ||
Db       1744 TIACQNPGKQNQIISAVSIPASSFISKAFKSGFFGMFIKKEG 1783


RESULT 12
US-08-[illegible]-044
; Sequence 44, Application US/07741940
; Patent No. [illegible]
; GENERAL INFORMATION:
;     APPLICANT:  ALDERTSEN, HANS
;     APPLICANT:  ANANG, AAKASI
;     APPLICANT:  DAVISON, MARY
;     APPLICANT:  GRODEN, JOANNA
;     APPLICANT:  HEDGE, PHILIP J.
;     APPLICANT:  JOSLYN, GEOFF
;     APPLICANT:  KINZLER, KENNETH
;     APPLICANT:  MARKHAM, ALEXANDER F.
;     APPLICANT:  NAKAMURA, YUSUKE
;     APPLICANT:  VOGELSTEIN, BERT
;     TITLE OF INVENTION:  INHERITED AND SOMATIC MUTATIONS OF APC
;     TITLE OF INVENTION:  GENE IN COLORECTAL CANCER IN HUMANS
;     NUMBER OF SEQUENCES:  94
;     CORRESPONDENCE ADDRESS:
;       ADDRESSEE:  Banner, Birch, McKie & Beckett
;       STREET:  1001 G Street, NW
;       CITY:  Washington
;       STATE:  D.C.
;       COUNTRY:  USA
;       ZIP:  20001-4598
;     COMPUTER READABLE FORM:
;       MEDIUM TYPE:  Floppy disk
;       COMPUTER:  IBM PC compatible
;       OPERATING SYSTEM:  PC-DOS/MS-DOS
;       SOFTWARE:  PatentIn Release #1.0, Version #1.25
;     CURRENT APPLICATION DATA:
;       APPLICATION NUMBER:  US/07/741,940
;       FILING DATE:  19920109
;       CLASSIFICATION:  435
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kagan, Sarah A.
;       REGISTRATION NUMBER:  32,141
;       REFERENCE/DOCKET NUMBER:  1107.035574
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  202-508-9100
;       TELEFAX:  202-508-9299
;   INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  2843 amino acids
;       TYPE:  AMINO ACID
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-07-741-940-2

  Query Match                4.8%;  Score 127;  DB 1;  Length 2843;
  Best Local Similarity   19.2%;  Pred. No. [illegible];
  Matches  121;  Conservative   78;  Mismatches  214;  Indels  218;  Gaps   28;

Qy          5 SKHSGTESQAKTCITTFKNPTTQASCVTFNLPKSTTKAARMMNQQPT        KMPIKESSS 58
              || ||: ::  ||: : : | | : :  :  |  | | ||       |:| | ||
Db        903 SKSSGSTIEL HCVTTDRNALKKSS AARTHSNTYNPTESTENSNSIQSMPVAKLEYKRSS 960

Qy         59 --------------          --------------SFDFRTSEISAKEELVLHPAKSSTS 83
                           |:   :::: |    |  :
Db        961 NDSLNSVSSNDGYGKFGQMKPSIPSTSEDDESKFQSVGQYPADLAHKTISANHMFDNDGE 1020

Qy         84 FDFLELNYSFDKNADTTM----------KW-------- ----------QTKAFPIV 111
                |   :|||  | :|  :                 :                |:  :::
Db       1021 LD-TFINYSL-KYSDFQLNSGRQSFSQNEEWAAPPHIISDEIKQSFPQWQSRNQSITYPVY 1078

Qy        112 CEPLQKHQSLDLGSLLF------EGC--------SNSKPVNAAGRYFNSKVPITKTKSIP 157
               |    | |  | |      : |          :|   |  |    | | :  |
Db       1079 TE------STDDKAIKFQPHFGQQEGVSFTKSKPANLSFINKVG    SNFKTNQNVS  1126

Qy        158 FELIQQRETKEVDSKENFS--YTESQTHDSGTVEMQAGKVMHVDSAELNYSLIYIGKHQI 215
              : : | :  | |    |:|  | | : |:                        ||| | :
Db       1127 -QSLCQEDDYEDDKFTNYSFKTSDEQNQHEE                 EPNFTNYSIKYNIELK  1170

Qy        216 ENASNVKHHDSG    ALSVYSYIPLVENDYFFSWDPSCTSSKMSLDLPFKQDIVPPSS 271
                  :| |     :|   : ||  .  :| |   | |||     :    : | |:
Db       1171        RHVDQFIHYSLEYAFIKDFPQSQSFSPSSSSRQSRSKTI  RMSSSSENISTDSS 1228

Qy        272 -------LIPTSSTSLPSYYNSHDSLSINSPTNISSLLNQFSA                  AV 308
                    | |:|:        |       :  |   |:|:|:                   :
Db       1229 NAFSQNQIPPSSA       QPDVSIDIKAATSKVSSSNQSFIGSVSPDSSSSRQSS 1276
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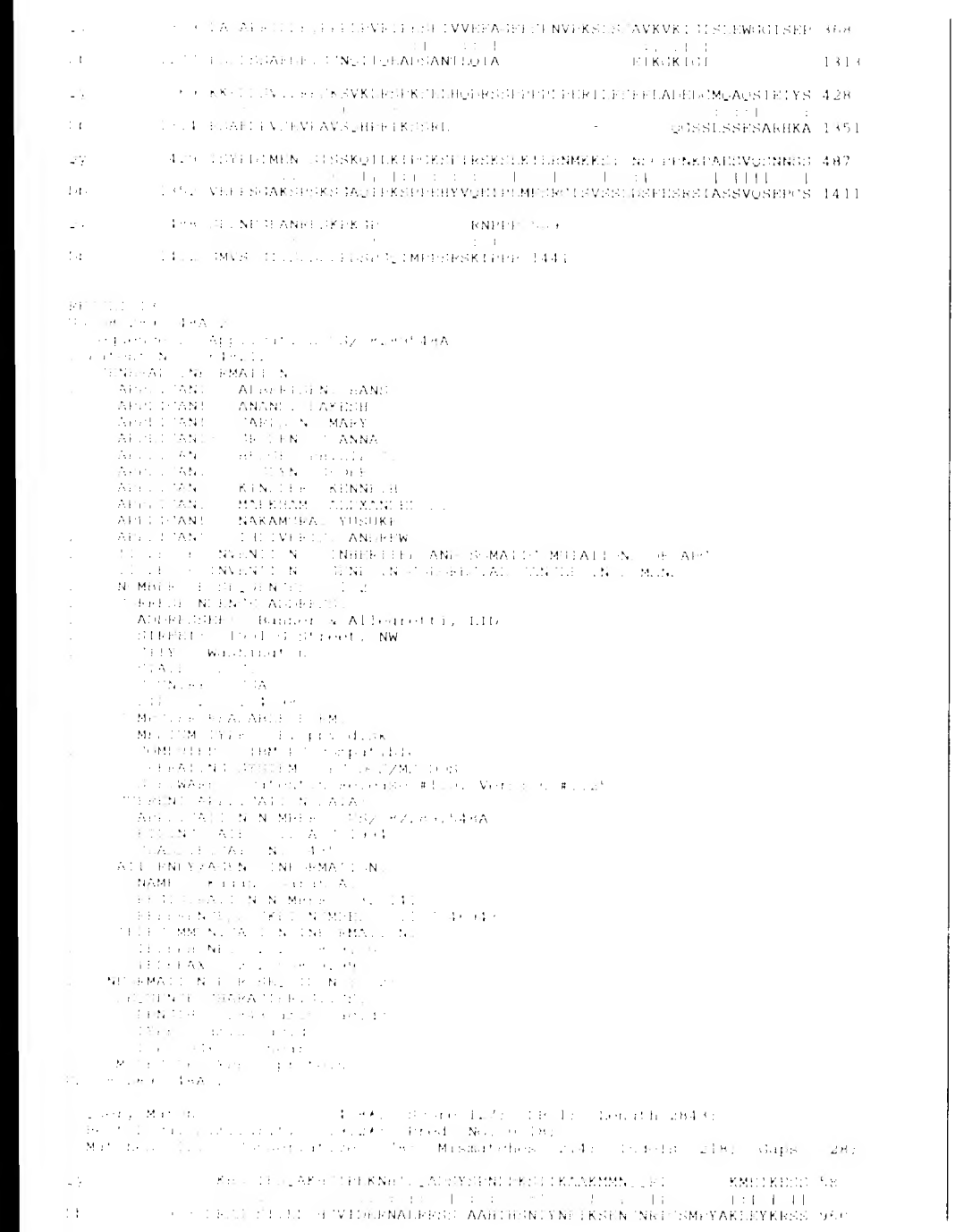

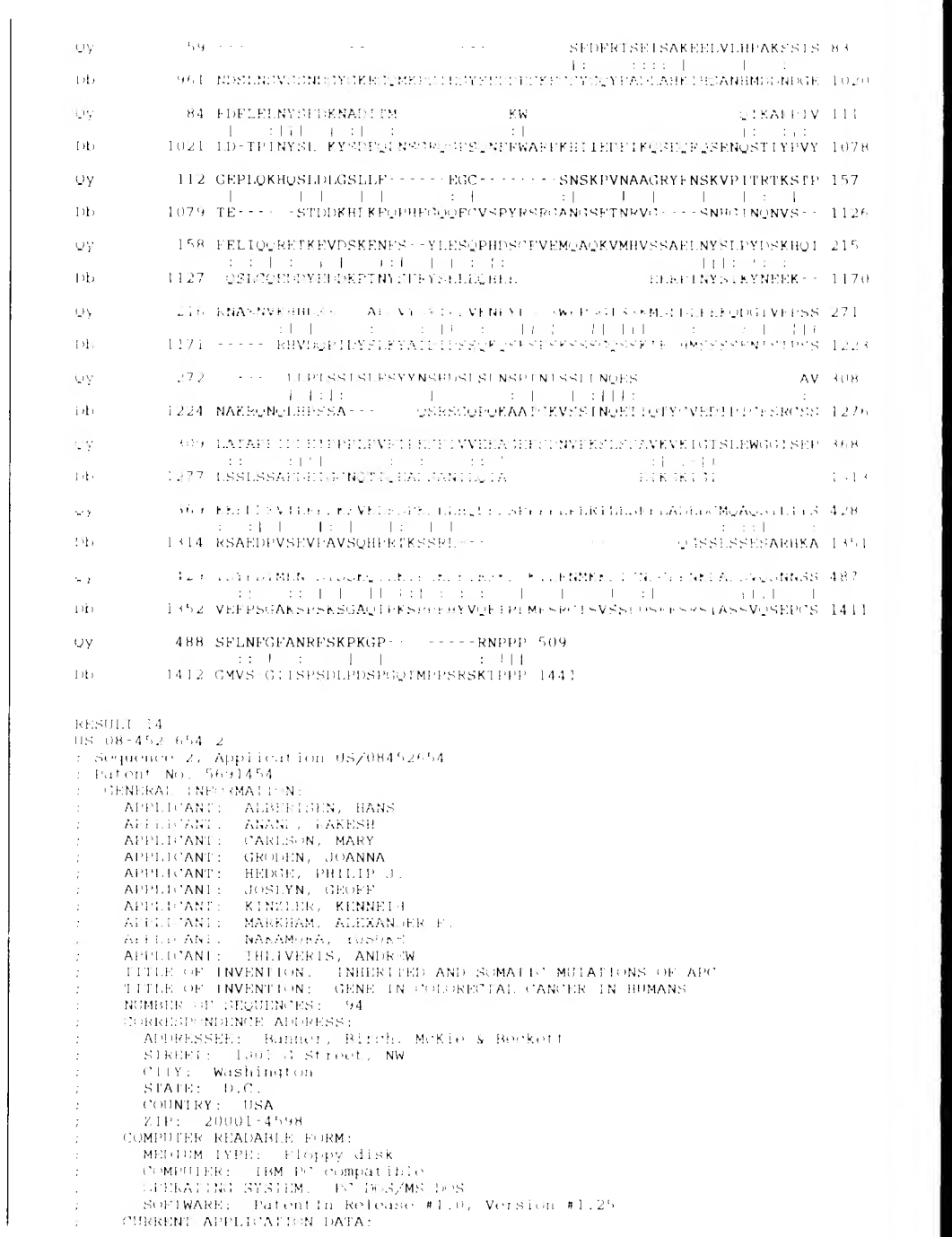

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;       APPLICATION NUMBER:  US/08/472,654
;       FILING DATE:  06-JUN-1995
;       CLASSIFICATION:  530
;     PRIOR APPLICATION DATA:
;       APPLICATION NUMBER:  US 07/741,940
;       FILING DATE:  08-AUG-1991
;     ATTORNEY/AGENT INFORMATION:
;       NAME:  Kagan, Sarah A.
;       REGISTRATION NUMBER:  32,141
;       REFERENCE/DOCKET NUMBER:  1107.035574
;     TELECOMMUNICATION INFORMATION:
;       TELEPHONE:  202-508-9100
;       TELEFAX:  202-508-9299
;   INFORMATION FOR SEQ ID NO:  2:
;     SEQUENCE CHARACTERISTICS:
;       LENGTH:  2843 amino acids
;       TYPE:  amino acid
;       TOPOLOGY:  linear
;     MOLECULE TYPE:  protein
US-08-472,654-2

  Query Match                4.8%;  Score 127;  DB 1;  Length 2843;
  Best Local Similarity   19.2%;  Pred. No. 0.18;
  Matches  121;  Conservative   78;  Mismatches  214;  Indels  218;  Gaps   28;

Qy          5 DKHSGTESQAKHCIPEKNHTLQADSYSPNLPKSTTKAAKMMNQQRT------KMEIKFSS 58
              |: ||: ::  ||: : : |:  | : :   :|    |  | ||       |:| | ||
Db        903 DRSSGSTTEL HCVTDEENALFFCS AAHTHCNTYNFTKSFNSNRTCSMPYAKLFYKRSS 960

Qy         59 ---------------------------------SFDFRTSEISAKEELVLHPAKSSTS 83
                                               |:    :::: |     |   :
Db        961 NDSLNSVSSNDGYGKFSQMFPSIPSVSPDFPCFCPSYQVYPAFLAHFIHCANHMDNDGE 1020

Qy         84 FDFLELNYSFDKNADTTM----------KW---------------QIKAFFIV 111
                 |  :|||  : :|  :          :|                |:  :|:
Db       1021 LD TFINYSL KYSDEQINEIFQCTPSQNFPWAKLFPKITFIFQSPQPCFNQSITTPVY 1078

Qy        112 GEPLQKHQSLDLGSLLP------EGC--------SNSKPVNAACRYFNSKVPITRTKSTP 157
              |  | |  : |       : |         :|    | |             | : |
Db       1079 TE    STDDKHLKFQFHFGQQECVSPYFSSRGANGSETNRVG----SNHCINQNVS-- 1126

Qy        158 PELIQQRETKEVDSKENFS--YLESQPHDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQI 215
              : : : | |  |:|  | | : |:                  |||: |: :
Db       1127 -QSLCQEDDYEDEKPTNYSERYSEEEQHEE----------EERFTNYSIKYNEEK-- 1170

Qy        216 RNASNVKHHDSS---ALGVYSYIPLVENPYFS-SWPPSGTSSKMSLDLPEKQDGTVFPSS 271
                  : |     :|   : || :   || |   || |||     :   . | |:|
Db       1171 ------ RHVDQPIDYSLKYAFDIPSSQKQSPSFSKSSSGQSSKTE-HMSSSSENTSTPSS 1223

Qy        272 -------LLPTSSISLPSYYNSHDSLSLNSPTNISSLLNQES----------------AV 308
                    | |:::         |       : |   | :|||:                 :
Db       1224 NAKPQNQLHPSSA-------QSPSPQPQKAATCKVSSNQFTIQTYCVPVTPICFSPCSS 1276

Qy        309 LATAPEIDDEIPPPIPVRTPESEIVVEEAGEFSPNVPKSLSSAVKVKIGISLEWGGTSEP 368
              ::   :|:|      :  :|   :: | |                 :| ||||
Db       1277 LSSISSAEIEIGCNQTIQEADSANTLQIA             -EIKGKIGT---------- 1313

Qy        369 KKEDDSVILEPSKSVKIESPKSELHQDRSSPPPPLPERTLESFFLADEDCMQAQSIETYS 428
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Db       1314 RSAFIPVSEVPAVSQHPKIKSSRL----------------------QGSSLSSESARHKA 1351

Qy        429 ISYPSIMEN STSSKQILKTFGKSFTESKSLKILRNMKKSICNSCPFNKPAESVQSNNSS 487
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Db       1352 VEEFSQAKSDSKSQAQIRKSPPFHYVQFTPLMPSPCTSVSSLDSFESRSIASSVQSEPCS 1411

Qy        488 SFINEGFANKFSKIKG----------RNPPP 509
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Db       1412 GMVS-GIISPSDLFDSAGQIMPPSRSKTPPP 1441


RESULT 19
US-08-370,235A-2
; SEQUENCE 2; Application US/08/370,235A
; Patent No. 5910418
; GENERAL INFORMATION:
;   APPLICANT:  VOGELSTEIN, BERT
;   APPLICANT:  KINZLER, KENNETH W.
;   APPLICANT:  HILL, DAVID E.
;   APPLICANT:  JOHNSON, KAREN A.
;   TITLE OF INVENTION:  ANTIBODIES AND ASSAYS FOR DETERMINING
;   TITLE OF INVENTION:  MUTATIONS IN THE APC GENE
;   NUMBER OF SEQUENCES:  4
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  BANNER & WITCOFF, LTD.
;     STREET:  1001 G STREET, N.W.
;     CITY:  WASHINGTON
;     STATE:  DC
;     COUNTRY:  US
;     ZIP:  20001
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/370,235A
;     FILING DATE:  01-JAN-1995
;     CLASSIFICATION:  435
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  KAGAN, SARAH A.
;     REGISTRATION NUMBER:  32,141
;     REFERENCE/DOCKET NUMBER:  01107.48688
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  202 508 9100
;     TELEFAX:  202 508 9299
; INFORMATION FOR SEQ ID NO:  2:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  2843 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  protein
US-08-370-235A-2

  Query Match                4.8%;  Score 127;  DB 2;  Length 2843;
  Best Local Similarity   19.2%;  Pred. No. 0.18;
  Matches  121;  Conservative   78;  Mismatches  214;  Indels  218;  Gaps   28;

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Db        903 DRSSGSTTEL HCVTDEENALFFCS AAHTHCNTYNFTKSFNSNRTCSMPYAKLFYKRSS 960

Qy         59 ---------------------------------SFDFRTSEISAKEELVLHPAKSSTS 83
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Db        961 NDSLNSVSSNDGYGKFSQMFPSIPSVSPDFPCFCPSYQVYPAFLAHFIHCANHMDNDGE 1020

Qy         84 FDFLELNYSFDKNADTTM----------KW---------------QIKAFFIV 111
                 |  :|||  : :|  :          :|                |:  :|:
Db       1021 LD TFINYSL KYSDEQINEIFQCTPSQNFPWAKLFPKITFIFQSPQPCFNQSITTPVY 1078

Qy        112 GEPLQKHQSLDLGSLLP------EGC--------SNSKPVNAACRYFNSKVPITRTKSTP 157
              |  | |  : |       : |         :|    | |             | : |
Db       1079 TE    STDDKHLKFQFHFGQQECVSPYFSSRGANGSETNRVG----SNHCINQNVS-- 1126

Qy        158 PELIQQRETKEVDSKENFS--YLESQPHDSCFVEMQAQKVMHVSSAELNYSLPYDSKHQI 215
              : : : | |  |:|  | | : |:                  |||: |: :
Db       1127 -QSLCQEDDYEDEKPTNYSERYSEEEQHEE----------EERFTNYSIKYNEEK-- 1170

Qy        216 RNASNVKHHDSS---ALGVYSYIPLVENPYFS-SWPPSGTSSKMSLDLPEKQDGTVFPSS 271
                  : |     :|   : || :   || |   || |||     :   . | |:|
Db       1171 ------ RHVDQPIDYSLKYAFDIPSSQKQSPSFSKSSSGQSSKTE-HMSSSSENTSTPSS 1223

Qy        272 -------LLPTSSISLPSYYNSHDSLSLNSPTNISSLLNQES----------------AV 308
                    | |:::         |       : |   | :|||:                 :
Db       1224 NAKPQNQLHPSSA-------QSPSPQPQKAATCKVSSNQFTIQTYCVPVTPICFSPCSS 1276

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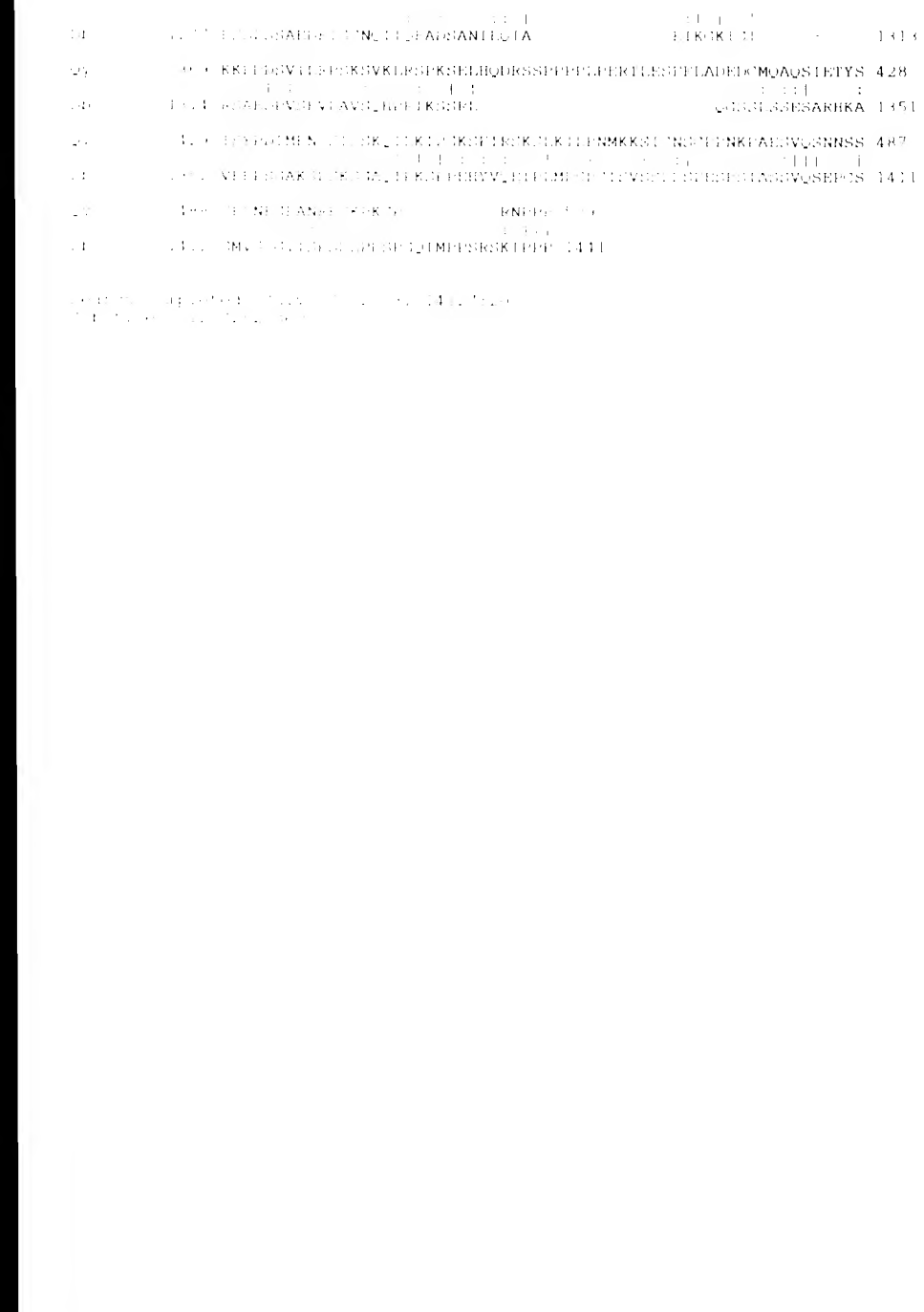

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: July 7, 2003, 14:25:45 ; Search time 35.1873 Seconds
(without alignments)
2480.711 Million cell updates/sec

Title: US-09-822-295-2_COPY_49_807
Perfect score: 5094
Sequence: 1 MEFPIGFTEVVTLQEYDPTAPLHTYDVTLCSIDNKGNEESSAFLEITGEA... ...FANEFSKPKSFPSGFFTWNI 793

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440863 seqs, 114992915 residues

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_AA:*
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2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
3: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep:*
4: /cgn2_6/ptodata/1/pubpaa/US06_PUBCOMB.pep:*
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11: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep:*
12: /cgn2_6/ptodata/1/pubpaa/US10_PUBCOMB.pep:*
13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
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2	2710.5	53.2	802	10	US-09-822-295-18	Sequence 18, Appl
3	1717	33.7	631	9	US-10-205-823-606	Sequence 606, App
4	929.5	18.2	752	0	US-09-788-626-21	Sequence 21, Appl
5	716	14.1	448	9	US-10-087-993-32	Sequence 32, Appl
6	710	13.9	468	9	US-10-243-687-7	Sequence 7, Appli
7	699.5	13.7	458	9	US-10-087-993-36	Sequence 36, Appl
8	529.5	10.4	214	9	US-10-245-539-6	Sequence 6, Appli
9	507.5	10.0	959	9	US-10-072-036-119	Sequence 119, App
10	500	9.8	1168	9	US-10-176-847-22	Sequence 22, Appl
11	500	9.8	1468	9	US-10-205-823-343	Sequence 343, App
12	491	9.6	811	10	US-09-788-626-23	Sequence 23, Appl
13	485.5	9.5	595	9	US-10-072-036-117	Sequence 117, App
14	483.5	9.5	843	9	US-10-087-993-1	Sequence 1, Appli
15	477	9.4	819	10	US-09-788-626-6	Sequence 6, Appli
16	477	9.4	2308	2	US-10-000-954-2	Sequence 2, Appli
17	477	9.4	2314	9	US-09-983-000A-6	GENERAL INFORMATI
18	474.5	9.3	816	10	US-09-788-626-5	Sequence 5, Appli
19	474.5	9.3	816	10	US-09-788-626-26	Sequence 26, Appl
20	474	9.3	317	10	US-09-788-626-4	Sequence 4, Appli
21	473	9.3	305	10	US-09-788-626-9	Sequence 9, Appli
22	470.5	9.2	442	10	US-09-825-300-950	Sequence 950, App
23	466.5	9.2	1948	9	US-09-808-602-55	Sequence 55, Appl
24	466.5	9.2	1948	9	US-09-800-198-45	Sequence 45, Appl
25	465.5	9.1	294	10	US-09-788-626-27	Sequence 27, Appl
26	465.5	9.1	2353	9	US-09-983-000A-4	Sequence 4, Appli
27	463.5	9.1	593	10	US-09-920-021A-3	Sequence 3, Appli
28	461.5	9.1	597	9	US-10-038-010-22	Sequence 22, Appl
29	461	9.0	248	9	US-10-293-241-10	Sequence 10, Appl
30	461	9.0	248	10	US-09-818-294-30	Sequence 30, Appl
31	460.5	9.0	1502	9	US-09-808-602-54	Sequence 54, Appl
32	460.5	9.0	1502	9	US-09-800-198-44	Sequence 44, Appl
33	456	8.9	209	10	US-09-788-626-12	Sequence 12, Appl
34	456	8.9	325	10	US-09-788-626-13	Sequence 13, Appl
35	452	8.9	281	10	US-09-788-626-28	Sequence 28, Appl
36	450	8.8	291	10	US-09-788-626-22	Sequence 22, Appl
37	445	8.7	322	10	US-09-788-626-14	Sequence 14, Appl
38	445	8.7	1093	9	US-10-245-544-4	Sequence 4, Appli
39	445	8.7	1118	9	US-10-245-539-2	Sequence 2, Appli
40	445	8.7	1118	9	US-10-245-539-8	Sequence 8, Appli
41	443.5	8.7	2301	9	US-09-822-871-4	Sequence 4, Appli
42	443	8.7	313	10	US-09-788-626-17	Sequence 17, Appl
43	441	8.7	313	10	US-09-788-626-7	Sequence 7, Appli
44	436	8.6	913	9	US-10-293-241-2	Sequence 2, Appli
45	436	8.6	913	10	US-09-848-294-2	Sequence 2, Appli

ALIGNMENTS

RESULT 1
US-09-822-295-2
Sequence 2, Application US/09822295
Patent No. US20020119501A1
GENERAL INFORMATION
APPLICANT: Babija Jalal
Gregory D. Plowman
TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
PTPRT RELATED DISORDERS
NUMBER OF SEQUENCES: 18
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: FastSEQ for Windows 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/822,295
FILING DATE: 02-Apr-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/081,345
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 194/253
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 807 amino acids

; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02-Apr-2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/081,445
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 234,253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US 09-822 295 18

Query Match 67.9%; Score 2710.5; DB 10; Length 802;
Best Local Similarity 70.0%; Pred. No. 1.7e-170;
Matches 544; Conservative 73; Mismatches 143; Indels 13; Gaps 6;

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Db 49 AQRPDKNIKKNRYKDILPYDHSRVELSFLPSGFDSSYINASFIKGVYQPKAYIATQGPLSP 108

Qy 61 TLLDFWRMIWEYSVLIVMACMEYEMGKKKCERYWADIGFMQLEPGFFSVSPEAKKKSD 120
Db 109 TLLDFWRMIWEYKILVIVMACMEFEMGKFFCERYWADICFIQLQPCFKSVSPEAKKKSD 168

Qy 121 VIFKYKKVENGEIPKLYSLRHYKNWPDHDVPSDYLIPLGELIWDMCVNGSEDRVPIQHCPS 180
Db 169 YPFKPTLFAKFNNETPLIYQFHYKNWPDHDVPSSYLIPLQELIWDMCVNGSEDRVPIQHCPS 228

Qy 181 AGQGRIGVICAIDYTWMLLKDGIIPENFSVESLIREMRTQRPSLVQTQFQYELVYNAVLE 240
Db 229 AGQGRIGVICAVDYTWMLLKDGIIPKNFSVENLIQEMRTQRPSLVQTQFQYELVYSAVLE 288

Qy 241 LFKKQMEVIKQFESKTEVSAKFQELVDIAKQSYGNLFEGNYSTDKNAQIIMKWQEKAFKIV 297
Db 289 LFKPHMEVIKQNELQPEILAQSTIPQSKLIVEAIVQSLLFKNAMPSVKEIYNQWCKQGAE 348

Qy 298 MEIKESPSFTPPISEISAKEDLVLDFAKQSYGNLFLLAYSTDKNAQIIMKWQEKAFEIV 357
Db 349 AESIGGSSIGDLAQRISIMNAIIELIVGHFAKQSFSENCLLLNTGGNNKAVIERNQQARASFVV 408

Qy 358 GEPIQFEQMQFLPKGSLIEDTSNSEKVNAAGSYENGKAPINLSFSLTFEGDEVKEVPIS 417
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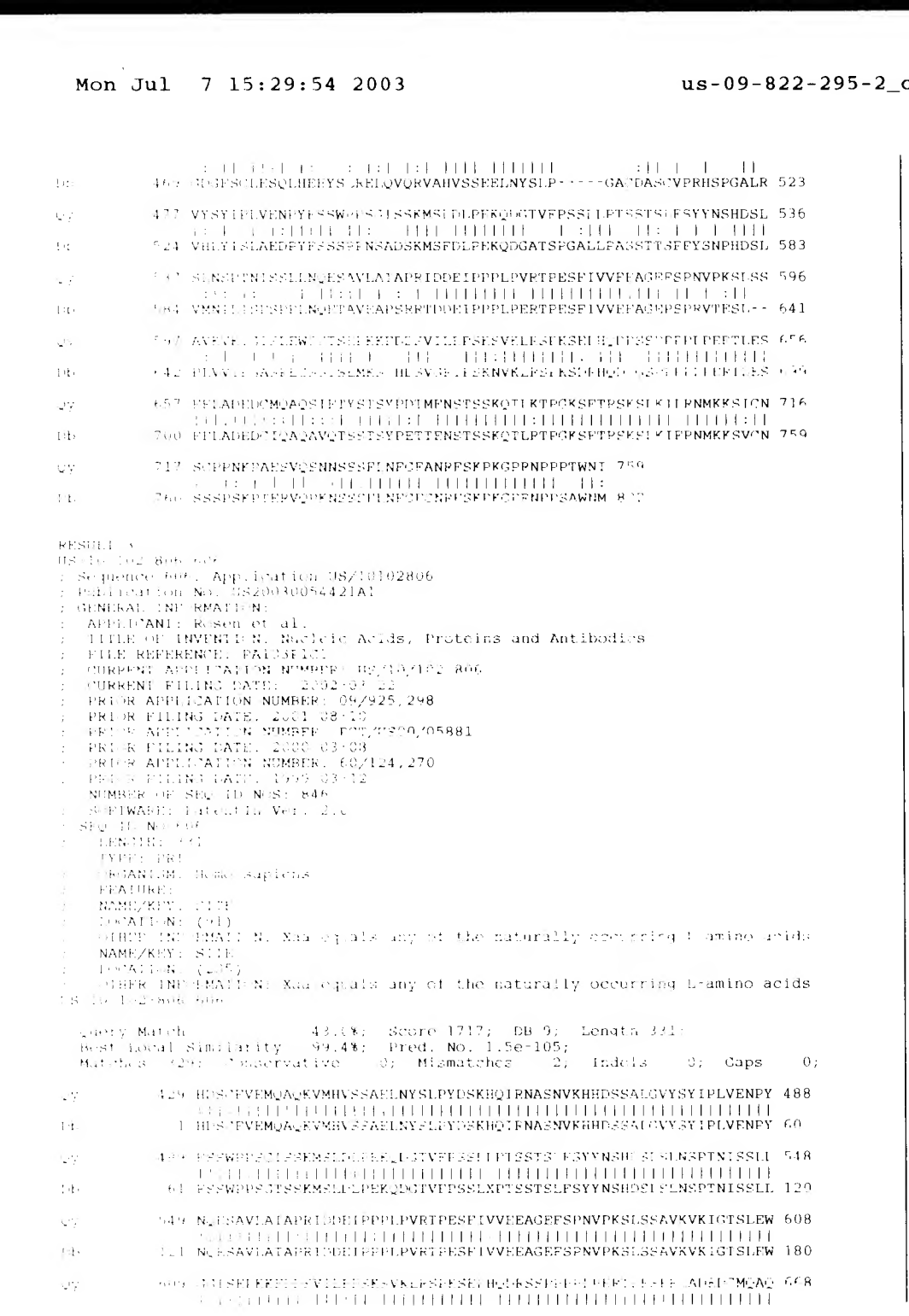

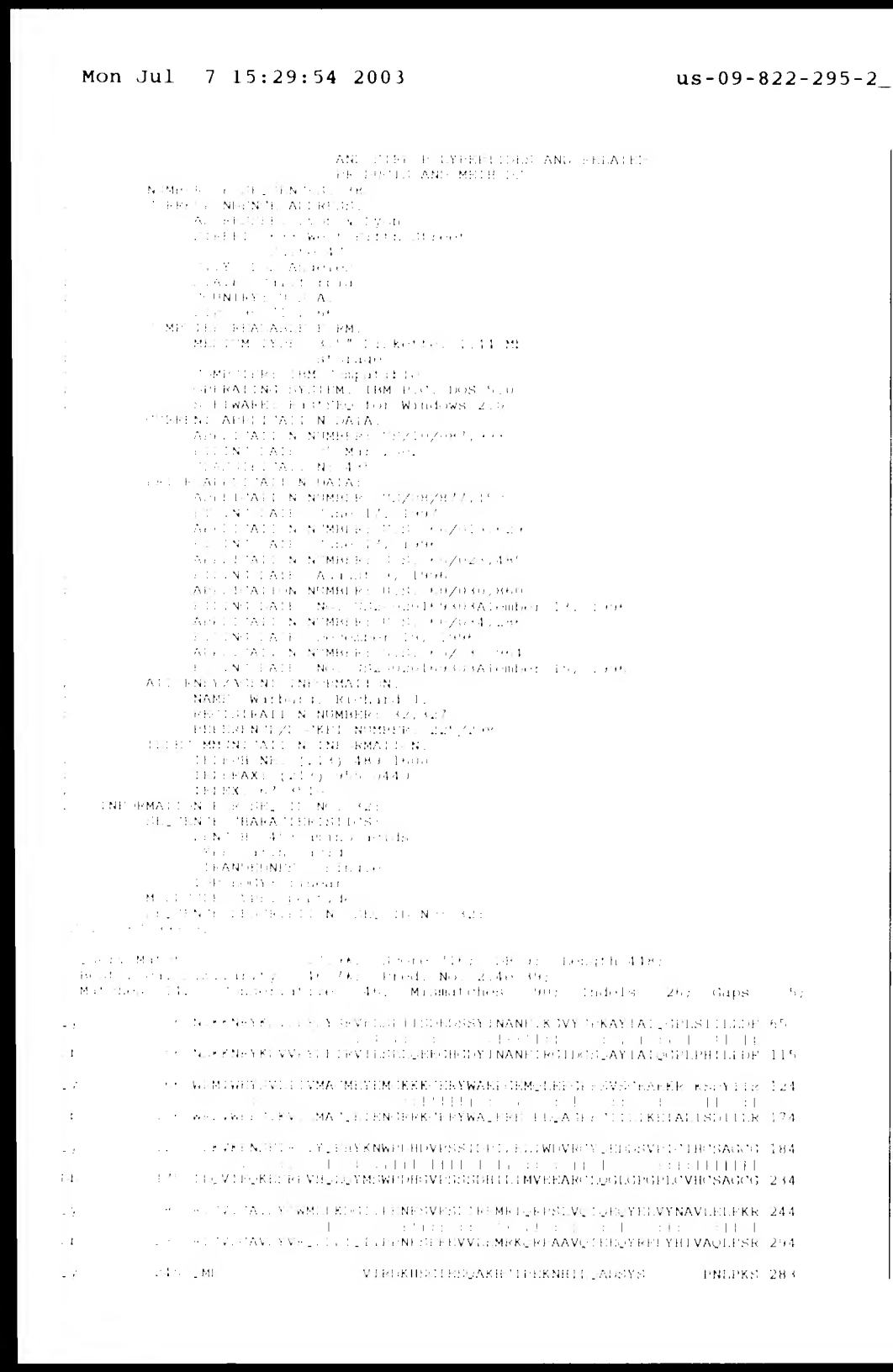

RESULT 6
US-10-243-687-7
; Sequence 7, Application US/10243687
; Publication No. US20030074120A1
; GENERAL INFORMATION:
; APPLICANT: Aoki, Naohito
; Ullrich, Axel
; TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
; AND RELATED PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM PC, DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/243,687
; FILING DATE: 16-Sep-2002
; CLASSIFICATION: -Unknown-
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/417,626A
; FILING DATE: 29-Oct-1999
; APPLICATION NUMBER: 08/951,260
; FILING DATE: October 16, 1997
; APPLICATION NUMBER: 60/030,860
; FILING DATE: No. US20030074120Alember 13, 1996
; APPLICATION NUMBER: PCT/1B97/00946
; FILING DATE: June 17, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-243-687-7

Query Match 17.9%; Score 716; DB 9; Length 453;
Best Local Similarity 46.2%; Pred. No. 2.5e-89;
Matches 142; Conservative 46; Mismatches 90; Indels 26; Gaps 5;

QY 6 NIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIDGVYGPKAYIATQGPLSTTLIDF 65
Db 56 NSKKNRYKDVVPYDHSRVKLSSLQSDDHSDYINANFIKGIHSPQAYIATQGPLPHTLLDF 115

QY 66 WRMIWEYSVLIIVMACMEYFMCPFFCEEVYWAFRYGFMSLEPGDPSVSPARKR-KSDYTIR 124
Db 116 WRLVWEYKSIVVVSVPECLKHGVVDYGGAEGQFWRKLVSQMEVDSIRIPTQYLGEGFPEHVAR 175

QY 125 FLELVGMNQYAMEKLTMEFPSPGYKDVIVHGYKHTKNKPLRSIWQNLIDSVHLMVLIDHDT 184
Db 176 FLNACKLCRGITPEHKAFEAAGLGLVAPGTHVLDLEMVEEAHCLDDSLIQQLLQEFILLVNR 235

QY 185 GGRSHNTFLSSKPNCDMEYEFVWGPKAHMETIKRGTKESHDNLICYGDQSHPKGDDFIE 244
Db 236 QGRCQNIIPNLTPRPDSEIAHQLWSGSALVYTAEFSTRMARKSMKQEARSEESILRHYY 295

QY 245 IMVEEARGSQDGLGPGPLGCVHCSAGCG 284
Db 296 TLQNNSFLYQNLKENKAFICKGSQSLKDSA LFATSRFLSGVLESISVPGPPTLPMA 351

QY 284 TTKA 287
Db 352 GTYA 355

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Qy          110 WKIVWIFSIIEVILHAC2LEINCPPYCDPYWAQFRF-PLQACPPCTTLPAPTALTSDITLP 174

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                 :|||: |:||   :|    || |||:| :: ||| |||: |||:|  :  :|: | :|| |
Db          235 RTGVLVAVDYTVRLLLEQGIIPPDFSLFDVVIEMRKQRPAAVQTEEQYRFLYHTVAQLFSP 294

Qy          245 QM-  ---------VIRDKHSCTESQAKHCIPEKNHTLQADSYS-  ----PNLPKS 283
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Db          295 TLQNNCPLYQNLKEMNAAIIQKISSSIRTSSA---LPATSKPLQGVDRSISVPGPPTLPMA 351

Qy          284 TSKA 287
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Db          352 LIYA 355


RESULT 7
US-10-087-993-36
; Sequence 36, Application US/10087993
; Publication No. US20020169303A1
; GENERAL INFORMATION:
;       APPLICANT: Ullrich, Axel
;                  Aoki, Naohito
;                  Kim, Yeong Woong
;                  Wang, Hong Yang
;                  Chen, Zhengjun
;                  Naylor, Oliver
;                  Kharitonenkov, Alexei Igorevich
;       TITLE OF INVENTION: NOVEL PTP20, PCP-2, BDP1, CLK-
;                           AND SIRP POLYPEPTIDES AND RELATED
;                           PRODUCTS AND METHODS
;       NUMBER OF SEQUENCES: 38
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: Lyon & Lyon
;            STREET: 633 West Fifth Street
;                    Suite 4700
;            CITY: Los Angeles
;            STATE: California
;            COUNTRY: U.S.A.
;            ZIP: 90071-2066
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                         storage
;            COMPUTER: IBM Compatible
;            OPERATING SYSTEM: IBM P.C. DOS 5.0
;            SOFTWARE: FastSEQ for Windows 2.0
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/10/087,993
;            FILING DATE: 05-Mar 2002
;            CLASSIFICATION: 435
;       PRIOR APPLICATION DATA:
;            APPLICATION NUMBER: US/08/877,150
;            FILING DATE: June 17, 1997
;            APPLICATION NUMBER: U.S. 60/019,629
;            FILING DATE: June 17, 1996
;            APPLICATION NUMBER: U.S. 60/023,485
;            FILING DATE: August 9, 1996
;            APPLICATION NUMBER: U.S. 60/030,860
;            FILING DATE: No. US20020169303Alember 13, 1996
;            APPLICATION NUMBER: U.S. 60/034,286
;            FILING DATE: December 19, 1996
;            APPLICATION NUMBER: U.S. 60/040,964
;            FILING DATE: No. US20020169303Alember 15, 1996
;       ATTORNEY/AGENT INFORMATION:
;            NAME: Warburg, Richard J.
;            REGISTRATION NUMBER: 32,327
;            REFERENCE/DOCKET NUMBER: 225/298
;       TELECOMMUNICATION INFORMATION:
;            TELEPHONE: (213) 489-1600
;            TELEFAX: (213) 955-0440
;            TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 36:
;        SEQUENCE CHARACTERISTICS:
;            LENGTH: 458 amino acids
;            TYPE: amino acid
;            STRANDEDNESS: single
;            TOPOLOGY: linear
;        MOLECULE TYPE: peptide
;        SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-10-087-993-36

  Query Match             17.5%;  Score 696.5;  DB 9;  Length 458;
  Best Local Similarity   48.5%;  Pred. No. 4.8e-38;
  Matches  128;  Conservative   53;  Mismatches   78;  Indels   5;  Gaps   4;

Qy            3 KPKNIKKNRYKDILPYDYSRVELSEINGEAGSDYINANFIDGYRQKN-  AYIATQGPLSETI 62
                :|:|::|||||||:|||| :|| || .  :  | |||  |||:|| |  |||||||||:  ||
Db           53 RPENVRKNRYKDVLPYDQTRVILSLLQEEGHSDYINGNFIRGVDGSLAYIATQGPLPHTL 112

Qy           63 LDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEKGEMQLEFKDSEKYSNDAPKR RKSDY 121
                |||||::||: | :|:||| | | |:|:|||||:  |  ': | | ::  ||   |
Db          113 LDFWRLVWEFGVKVILMACKEIENGRKRCERYWAQFQE-FLQTGLFCITLLKEKWLNEDI 171

Qy          122 IIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPIQIHCSA 181
                ::|||| |  |:|: ||  | :||  |||| | :: :: : |  |      |: :| ||
Db          172 MLKILKVKFQKEDRSVYQLQYTMWPDHGVPESPGSILSFIEEVEDYQNSSPTPLLVHCSA 231

Qy          182 GCGRTGVICAIDYTWMLLKHGIIPENNFSVPSLIREMRTQRPSLVQTQEQYELVYNAVLEL 241
                |||||||:| :||   ||   :|| :|||: :: :|| ||| :|||:|| :: | ::
Db          232 GCGRTGVLCTVDYVWQLIKQQMIPPDFSLFDVVIEMRKQRPAAVQTEEQYRFLYHTVAQM 291

Qy          242 FKRQMDVIRDKHSCTESQAKHCIP 265
                |      :::     ::  ::|| |
Db          292 F---CSTLQNASPHYQNIKENCAP 312

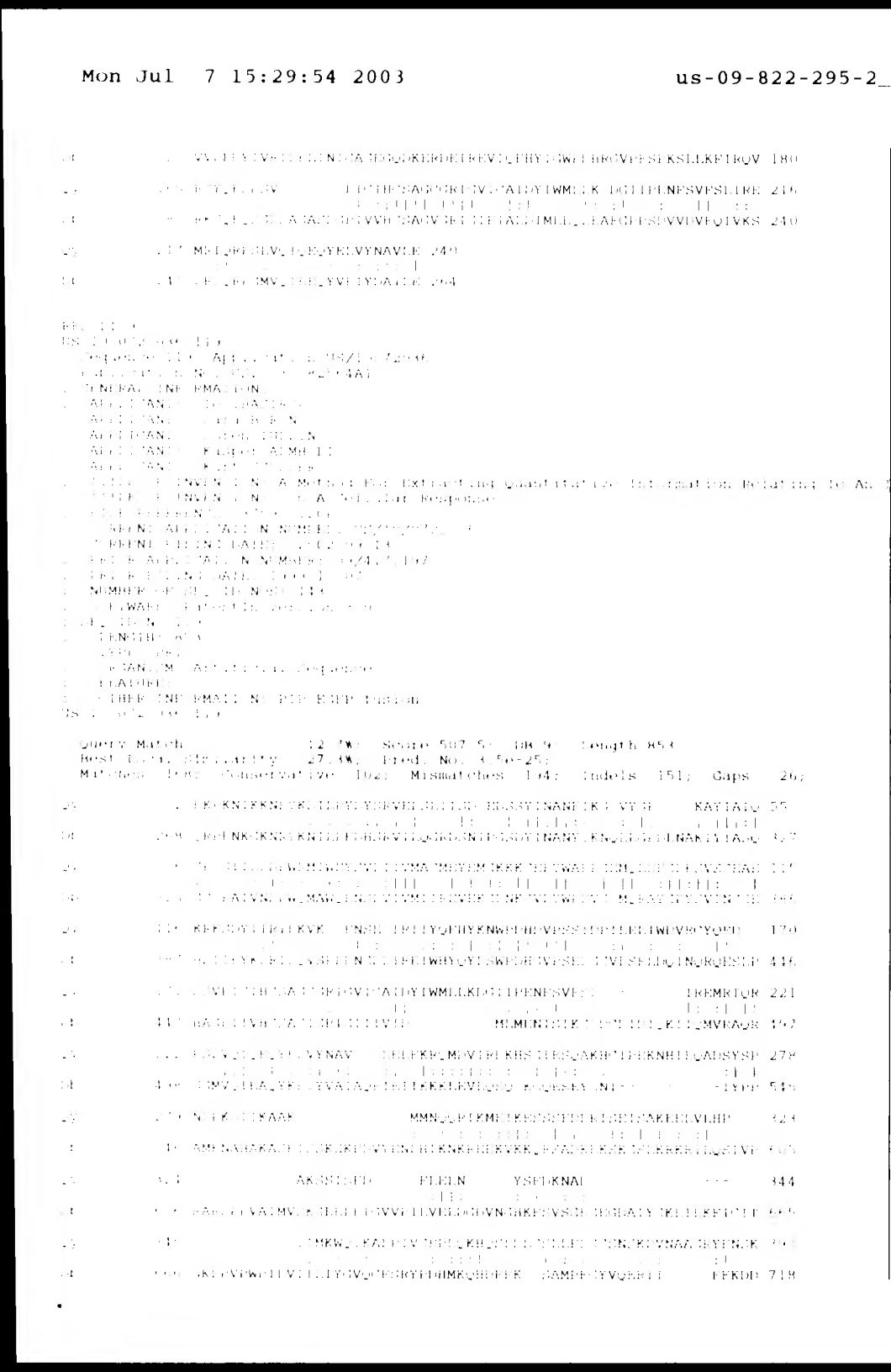

RESULT 8
US-10-245-539-6
; Sequence 6, Application US/10245539
; Publication No. US20030077638A1
; GENERAL INFORMATION:
;  APPLICANT: Logan, Thomas Joseph
;  TITLE OF INVENTION: MID 4460, A HUMAN TYROSINE PHOSPHATASE
;  TITLE OF INVENTION:  FAMILY MEMBER  AND USES THEREFOR
;  FILE REFERENCE: MPI01-155PIRM
;  CURRENT APPLICATION NUMBER: US/10/245,539
;  CURRENT FILING DATE:  2002-12-05
;  PRIOR APPLICATION NUMBER: 60/323,018
;  PRIOR FILING DATE: 2001-09-18
;  NUMBER OF SEQ ID NOS: 8
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
;  LENGTH: 264
;  TYPE: PRT
;  ORGANISM: Artificial Sequence
;  FEATURE:
;  OTHER INFORMATION: consensus sequence
US-10-245-539-6

  Query Match             13.2%;  Score 525.5;  DB 9;  Length 264;
  Best Local Similarity   44.7%;  Pred. No. 4e-27;
  Matches  118;  Conservative   43;  Mismatches   74;  Indels   29;  Gaps   9;

Qy            6 NIKKNRYKDILPYDYSRVELSEINGEAGSDYINANFIDGYRQKE-  AYIATQGPLSETI 63
                | ||||||||||||:|||:|: |  : | | :|:|::|, : | |    : :|||||| :
Db            1 NKKKNRIKDVLPYDESRVE...L..QE.SE..SS   ..  ..,.,.,.. ..VEQGPLPSN 60

Qy           64 LDFWRMIWEYSVLIIVMACMELEMGKKKCERYWAEKGEMQLEF  KDSESVSKDAPK 116
                |: ||||:||  :  ||||        |::|:|:| : || : :    :  ||: :::
Db           61 TVEDFWRMVWENQNSAIIVMLTRLVEKGRKKCDQYWPDEGEGENDSEIYGDISVTLKSEE 120

Qy          117 RRKSDYIIRTLKV---          KINSETRTIYQFHYKNWPDH-DVPSSIDPILELIWDV 164
                   ||:|::                  ||| : |:|:  |||| || :   :|: | :
```



Query Match 12.7%; Score 507.5; DB 9; Length 858;
Best Local Similarity 27.4%; Pred. No. 4.5e-25;
Matches 194; Conservative 102; Mismatches 194; Indels 151; Gaps 26;

RESULT 10
US-10-176,847-22
; Sequence 22, Application US/10176847
; Publication No. US20030068636A1
; GENERAL INFORMATION:
; APPLICANT: Velby, Peter Ole
; TITLE OF INVENTION: COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY OF BREAST
; TITLE OF INVENTION: AND OVARIAN CANCER
; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 1463
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-176,847-22

Query Match 12.5%; Score 500; DB 9; Length 1463;
Best Local Similarity 42.0%; Pred. No. 2.4e-24;
Matches 102; Conservative 46; Mismatches 85; Indels 10; Gaps 4;

RESULT 11
US-10-205,823-343
; Sequence 343, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gunnavarapu, Manjula
; APPLICANT: Gorbatcheva, Bella
; APPLICANT: Boersch, Sebastian
; APPLICANT: Kamatkar, Shubhangi
; APPLICANT: Wonsey, Angela M.
; APPLICANT: Glatt, Karen

```
; APPLICANT: Jones, Xamel
; APPLICANT: Anderson, Destin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MPI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; EARLIEST APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,356
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,158
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 43
;   LENGTH: 346
;   TYPE: PRT
;   ORGANISM: Homo sapiens
US-10-205-823-43

  Query Match             12.5%;  Score 500;  DB 9;  Length 1463;
  Best Local Similarity   42.0%;  Pred. No. 2.4e-21;
  Matches  142;  Conservative   46;  Mismatches   85;  Indels   10;  Gaps    4;

Qy           1 AEKPKNIEENEYKDEIPYIAYSEVDIQDTSLEDSSYINANFIDGVDQKAYIAAQGPLSET 60
               ::  :  : ||  |:  |:||| | ::  :  | |||||:| : : |:|||||:
Db         920 AEELRNEMKNGKFSNIIPFDHSRVILVLDQENFHDSDYINANYIDGYNEPKAYIATQGPMQE 979

Qy          61 IIGMFWRMIWEYSVLIVMACMEYEMGRKKCERYWAEPGEMQLEFGPFSVSCEAE 115
               |:  :|||||:|| :  :|  |:|: || ||| :  |:   :|    |:|:|:
Db         980 IVSEDSIMTWKEYDVLYMSDMDEYDSDHKTVERYLTPEEYVSPEFAAEEEAE 1034

Qy         116 EPESDYIIPTLKVE--ENSNGPRTISKGAKNWFTNLDLNPDSSTDPTLLELMTVVPIQYQEG 173
               :|| |||:|    |  |:|  | |: : :|||| |||    :|     :|  ||
Db        1035 YVIPLTIVQEECVSEEIPELPIFHEISWPDHKVPCYATGLLQEFVPQVKHSNPEAGPIVVH 1094

Qy         174 VSAPSESQVIQAIIEIW MKLKQCIPFNESVPSLIEEMRTQEPSVQTQEQYFLVYNA 231
               :|: |||    |||    |  :|:      :|: :|:|: || :|||||||| |:|
Db        1095 CSAGAGRTGTFIAIDRLLQMAENESVV  DIPNCVRELRAQRVNLVQTEEQYVFVHDA 1152

Qy         232 VIE 234
               ||
Db        1153 IIE 1155


RESULT 12
US-10-788-626-2
; Sequence 2, Application US/10788626
; Patent No. US20020009702A1
; GENERAL INFORMATION:
;  APPLICANT: Elliott, Andrew J.
;  APPLICANT: Cook, Edward E.
;  TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
;  TITLE OF INVENTION: PHOSPHATASE
;  FILE REFERENCE: 2001125.431
;  CURRENT APPLICATION NUMBER: US/10/788,626
;  CURRENT FILING DATE: 2001-02-14
;  NUMBER OF SEQ ID NOS: 43
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2
;  LENGTH: 595
;  TYPE: PRT
;  ORGANISM: Dictyostelium discoideum
US-10-788-626-2

  Query Match             12.1%;  Score 491;  DB 10;  Length 595;
  Best Local Similarity   38.0%;  Pred. No. 1.1e-24;
  Matches  105;  Conservative   40;  Mismatches   89;  Indels   42;  Gaps    7;

Qy           2 EKPKNIEENEYKDEIPYIAYSEVDIQDTSLEDSSYINANFIDGVDQKAYIAAQGPLSET 61
               :|  |  :|||  :||| :::||:    |   | | ||||||:| | | || :| |||||  |
Db           8 DKKHNTSKNRYTNILPVNHTRVQLKKTQDKFGSDYINANYIDGAY-PKQFIATQGPLPNT 66

Qy          62 IIGMFWRMIWEYSVLIVMACMEYEMGRKKCERYWAEPGEMQLEFGPFSVSCEAEEPESDY 121
               : ||||||:||    || |   |  :    ||:|| |           |    ||  |
Db          67 TADFWEMVWENDCRIIVMICNLEEGSRTKCDRYWPDQLDGEFGPFSITCMGEQKSEYRLRT 126

Qy         122 IIPTLKVEENSNGPRTISKGAKNWFTNLDLNPDSSTDPTLLELMTVVPIQYQEGVSAPSES 181
               |      :  | | ::: | :|| | | :: :|||:|    |  :|:  :
Db         127 VFLVFVIQCPRFIEPKNIPLIFPCKEEKLSQTQYFCQWFPNHTPSRDAPFKQFIHLIRNVRN 186

Qy         182 QVIQAIIEIWMKLKQCIPFNESVPSLIEEMRTQEPSVQTQEQYFLVYNAVIE 234
               :|| :  :| |||  :||  |||      :| |:: !
Db         187 QIIFSSDRNVFLIVHCSAGVGRTGTFIVTDTMMERLKYEPQIDVNGFL  DPN 238

Qy         210 VFSLIPEMRTQEPSEVQTQEQYFLVYNAVI-EIPKR 244
               :|||:  :: | ||| :||  |||      :| |:: !
Db         239 LFSIVLKLPEQRPGMVQQIFQYLFCVKTILDFIYHR 274


RESULT 13
US-09-920-021A-1
; Sequence 1, Application US/09920021A
; Patent No. US20020110809A1
; GENERAL INFORMATION:
;  APPLICANT: KAPLAN, DAVID
;  APPLICANT:  MARSH, H. NICK
;  TITLE OF INVENTION: USE OF CHK1 AND SHP-2 IN DETECTI
;  TITLE OF INVENTION:  COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
;  FILE REFERENCE: 09238/0160C1
;  CURRENT APPLICATION NUMBER: US/09/920,021A
;  CURRENT FILING DATE:  2001-08-01
;  PRIOR APPLICATION NUMBER: US/08/918,157
;  PRIOR FILING DATE: 1997-08-25
;  NUMBER OF SEQ ID NOS: 4
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
;  LENGTH: 595
;  TYPE: PRT
;  ORGANISM: Homo sapiens
US-09-920-021A-1

  Query Match             12.1%;  Score 484.5;  DB 10;  Length 595;
  Best Local Similarity   34.7%;  Pred. No. 7.9e-24;
  Matches  122;  Conservative   66;  Mismatches  108;  Indels   57;  Gaps   13;

Qy           2 EKPKNIEENEYKDEIPYIAYSEVDIQDTSLEDSSYINANFIDGVDQKAYIAAQGPLSET 61
               ::|:|  ||||:|||:|: ||      |:   | || |:|| : ||    | ||||
Db         266 QRPENKGKNRYKNILPFDHSRVILQTKDQDSDYINANYIKNEIN-NDQCAYIATQGPKAET 324

Qy          62 IIGMFWRMIWEYSVLIVMACMEYEMGRKKCERYWAEPGEMQLEFGPFSVSCEAE 115
               | |  |: |||:| |: :  :||  :| | || | | | | | | :|||||  |
Db         325 QDTSAIVNITWQMAWQENSRVIVMTTREVEKGRNKCVQYWPEVGT MQKAYGDFSVTNMGE 384

Qy         116 EPESDYIIPTLKVE--ENSNGPRTISKGAKNWFTNLDLNPDSSTDPTLLELMTVVPIQYQEG 173
               ::| :|||:|    |  :|:  | |: : :|||| |||    :|     :|  ||
Db         385 RDYTEPYKLRTTCQVSPIDNRGPLTGEEIWRVIQETSWPTHGVPESPEEGVLSFLDQINQRQESLP 444

Qy         174 VSAPSESQVIQAIIEIWMKLKQCIPFNESVPSLIEEMRTQEPSVQTQEQYFLVYNAVIE 234
               : || :|||| || | ||          : :  |  |           || ||
Db         445 HAGPIVVHCSAGIGRTGCFIVIE--      --MLMENISIKGLLCPNIDIQSTIQMVRAQR 495

Qy         222 PSLVQTQEQYELVYNAV   LEIPKR-MDVIIEPHTPNQAKPDTFFKNGTCQADVSSL 278
               :|||: || : |  ::  :|  |:::::  :  :  |  :  :           : |
Db         496 SGMVQTFAQYKFIYVAIAQFIETISKKLEVIQSQKTKQNSVGNI-          IVPI 543

Qy         279 NLPKSTTKAAR             SMNLQRTRMELIESGPSTPNPRTSFISAKPEE 338
               :  :  |||:            : : : : :::  | |   |: | | :
Db         544 AMFNAHAKAGLESGPSFTCTLGLGTGQPEVKVKLIRKDDTRTFYCQEQKSEKPTR 606
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[illegible]
Sequence [illegible] Application [illegible] 2036
[illegible]
GENERAL INFORMATION
APPLICANT: [illegible]
APPLICANT: [illegible]
APPLICANT: [illegible]
APPLICANT: Kasper ALMHOLT
APPLICANT: Karl [illegible]
TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
TITLE OF INVENTION: [illegible] A Cellular Response
FILE REFERENCE: [illegible]
CURRENT APPLICATION NUMBER: [illegible]
CURRENT FILING DATE: [illegible]
PRIOR APPLICATION NUMBER: 09/417,197
PRIOR FILING DATE: [illegible]
NUMBER OF SEQ ID NOS: [illegible]
SOFTWARE: [illegible]
SEQ ID NO [illegible]
LENGTH: [illegible]
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: [illegible] fusion
[illegible]

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  Query Match             12.1%;  Score 483.5;  DB [illegible];  Length 843;
  Best Local Similarity   34.7%;  Pred. No. 1.3e-23;
  Matches  [illegible];  Conservative   65;  Mismatches  108;  Indels   57;  Gaps   13;

Qy          [illegible] [illegible]KAYIATQ 55
Db          [illegible] [illegible]NAKIYIASQ 573

Qy          [illegible] [illegible]FWEMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAE 115
Db          [illegible] [illegible]EAIVNE[illegible]MQKAYGPYSVTNCGE 632

Qy          [illegible] KEE[illegible]KVK [illegible]FNGE [illegible]TIYQFHYKNWPDHDVPSS[illegible]WDVRCYQED-- 170
Db          [illegible] [illegible]NQRQESLP 692

Qy          [illegible] [illegible]REMKTQR 221
Db          [illegible] MLMENISTK[illegible]QKTIQMVRAQR 743

Qy          [illegible] [illegible]VYNAV [illegible]EFKRQMEVIR[illegible]KHS[illegible]AKH[illegible]EKNHI[illegible]ADSYSP 278
Db          [illegible] [illegible]TYPP 791

Qy          [illegible] NI[illegible]K[illegible]IKAAF   MMNQQRIKMFIKESSSF[illegible]ISAKEE 318
Db          [illegible] AMFN[illegible]KVKK[illegible]EEE 843
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RESULT [illegible]
US-09-788-626-[illegible]
Sequence [illegible], Application US/09788626
[illegible]
GENERAL INFORMATION
APPLICANT: [illegible]
APPLICANT: [illegible]
TITLE OF INVENTION: [illegible] ASSAY FOR PROTEIN TYROSINE
TITLE OF INVENTION: [illegible]PHATES
FILE REFERENCE: [illegible]
CURRENT APPLICATION NUMBER: US/09/788,626
CURRENT FILING DATE: [illegible]
NUMBER OF SEQ ID NOS: [illegible]
SOFTWARE: [illegible] Version 4.0
SEQ ID NO [illegible]
LENGTH: [illegible]
TYPE: PRT
ORGANISM: Homo sapiens
US-09-788-626-6

```
  Query Match             12.0%;  Score 477;  DB 10;  Length 319;
  Best Local Similarity   37.4%;  Pred. No. 8.4e-24;
  Matches  110;  Conservative   50;  Mismatches  106;  Indels   28;  Gaps    8;

Qy          4 FKNIKKNRYKDILPYDYSRVELSLITSDED--SSYINANFIKGVYGFKAYIATQGPLSTT 61
              |:|  |||| :|| ||:|||:|    :    :    | ||||||:: |     ||||||||| :|
Db         10 PENKHKNRYINILAYDHSRVKLRPLPGKDSKHSDYINANYVDGYNKAKAYIATQGPLKST 69

Qy         62 [illegible]FWEMIW[illegible]VLIIVMA[illegible]WAE[illegible]AEKRKSDY 121
Db         70 [illegible]FWKMIWE[illegible]IVM[illegible]HAVY 127

Qy        122 I - [illegible]TLKVKFNSE       TRTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQED 170
              ||   |||    :          !  :  |:||   |||   ||     |:|   :        :
Db        128 IVESI[illegible]NIKVKK[illegible]KVVTQYHYTQWPDMGVPEYALPVLTFVRRSSAARMP 187

Qy        171 [illegible]SVP[illegible]HCSAG[illegible]RTGV[illegible]CA[illegible]YIWMLLKDG[illegible]PENFSVFSLIREMRTQRPSLVQTQEQ 230
              :: |: :||||| ||||      ||        :||          :|     :: :||||   |||||:||
Db        188 ETGPVLVHCSAGVGRTGTYIVIDSMLQQIKD    KSTVNVLGFLKHIRTQRNYLVQTEEQ 244

Qy        231 YFLVYNAVLE LFKRQMDVIRD------KHSGTESQ---AKHCIPEKNHTLQAD 274
              |   ::|:|| :   :: :|: |          !     :        ||     ::|: :| :
Db        245 YIFIHDALLEAILGK[illegible]TEVV[illegible]SML[illegible]IKDKSTVNVLGFLK[illegible]NYLVQTE 298
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Search completed: July 7, 2003, 14:44:58
Job time : 37.1833 secs

GenCore version 5.1.6

SW protein - protein search, using sw model

Run on: July 7, 2003, 14:22:05 ; Search time 14.3932 Seconds
(without alignments)
1551.569 Million cell updates/sec

Title: US-09-822-295-2_COPY_49_807
Perfect score: 5989
Sequence: 1 AEKIPKNIKFNEYKQILPYDY ... FANRFSKPKGPENPPPTWNT 759

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 78422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/iaa/5A_COMB.pep *
2: /cgn2_6/ptodata/1/iaa/5B_COMB.pep *
3: /cgn2_6/ptodata/1/iaa/6A_COMB.pep *
4: /cgn2_6/ptodata/1/iaa/6B_COMB.pep *
5: /cgn2_6/ptodata/1/iaa/PCTUS_COMB.pep *
6: /cgn2_6/ptodata/1/iaa/backfile1.pep *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

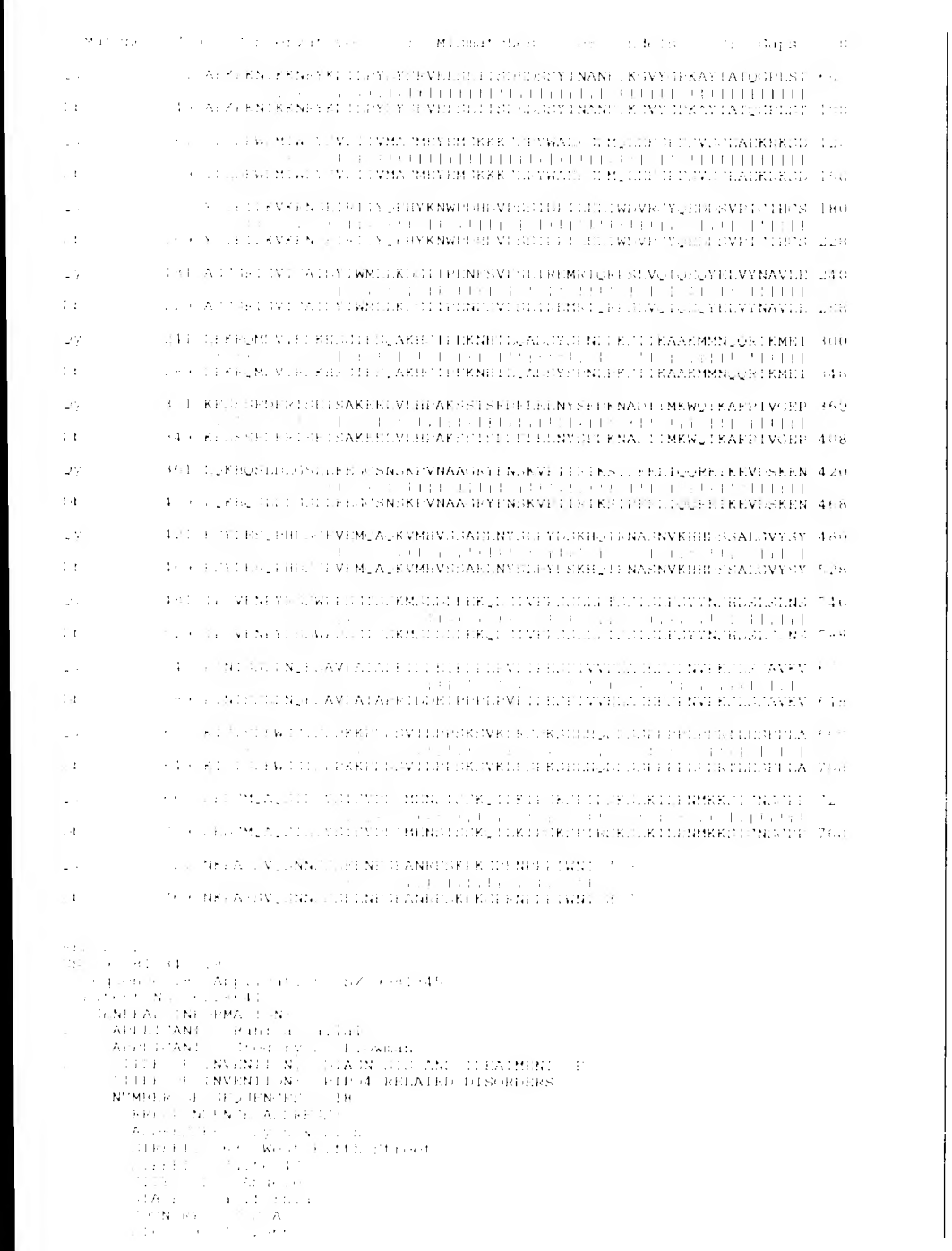
SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	5989	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	2710.5	67.9	802	4	US-09-081-345-18	Sequence 18, Appl
3	1247	31.3	278	4	US-08-821-278A-18	Sequence 18, Appl
4	945	23.7	272	4	US-08-821-278A-19	Sequence 19, Appl
5	926	23.2	253	2	US-08-685-992-20	Sequence 20, Appl
6	926	23.2	253	2	US-09-144-925-20	Sequence 20, Appl
7	726	18.2	453	3	US-08-951-260A-7	Sequence 7, Appli
8	697.5	17.4	453	4	US-08-821-278A-2	Sequence 2, Appli
9	1455.5	12.4	1439	2	US-08-449-644-2	Sequence 2, Appli
10	1455.5	12.4	1439	2	US-08-087-244A-2	Sequence 2, Appli
11	455	12.4	1337	3	US-08-854-585-2	Sequence 2, Appli
12	455	12.4	1337	5	PCT-US95-05512-2	Sequence 2, Appli
13	456	12.3	277	2	US-08-685-992-22	Sequence 22, Appl
14	456	12.3	277	2	US-09-144-925-22	Sequence 22, Appl
15	4855.5	12.2	595	1	US-08-202-389-6	Sequence 6, Appli
16	4855.5	12.2	1442	1	US-08-015-986A-3	Sequence 3, Appli
17	4855.5	12.2	1442	2	US-08-446-363-3	Sequence 3, Appli
18	1455	12.1	1452	2	US-08-652-971-4	Sequence 4, Appli
19	1455	12.1	1452	2	US-08-991-258A-4	Sequence 4, Appli
20	1455	12.1	1452	2	US-08-769-399-4	Sequence 4, Appli
21	1455	12.1	1452	4	US-09-991-953A-4	Sequence 4, Appli
22	1455	12.1	431	1	US-08-202-389-8	Sequence 8, Appli
23	1455	12.1	1452	2	US-08-449-644-8	Sequence 8, Appli
24	1455	12.1	1452	2	US-08-087-244A-8	Sequence 8, Appli
25	1455	12.1	1457	2	US-08-652-971-3	Sequence 3, Appli
26	1455	12.1	1457	2	US-08-449-644-1	Sequence 1, Appli
27	1455	12.1	1457	2	US-08-087-244A-1	Sequence 1, Appli
28	1455	12.1	1457	2	US-08-991-258A-3	Sequence 3, Appli
29	1455	12.1	1457	2	US-08-769-399-3	Sequence 3, Appli
30	1455	12.1	1457	3	US-08-991-953A-3	Sequence 3, Appli
31	1455	12.1	1445	1	US-08-015-986A-2	Sequence 2, Appli
32	1455	12.1	1445	2	US-08-446-363-2	Sequence 2, Appli
33	1455	12.1	2308	1	US-08-015-97-1	Sequence 1, Appli
34	1455	12.1	2308	2	US-08-448-164-1	Sequence 1, Appli
35	1455	12.1	2308	4	US-08-081-929-2	Sequence 2, Appli
36	1455	12.1	2314	4	US-09-816-703A-2	Sequence 2, Appli
37	1455	12.1	593	1	US-08-618-129-5	Sequence 5, Appli
38	1455	12.1	593	2	US-08-448-250-5	Sequence 5, Appli
39	1455	12.1	249	2	US-08-685-992-8	Sequence 8, Appli
40	1455	12.1	249	2	US-09-144-925-8	Sequence 8, Appli
41	1455	12.1	292	1	US-08-036-210-12	Sequence 12, Appl
42	1455	12.1	292	2	US-08-449-609-12	Sequence 12, Appl
43	1455	12.1	263	2	US-08-685-992-5	Sequence 5, Appli
44	1455	12.1	263	2	US-09-144-925-5	Sequence 5, Appli
45	1455	12.1	593	1	US-08-202-389-12	Sequence 12, Appl

ALIGNMENTS

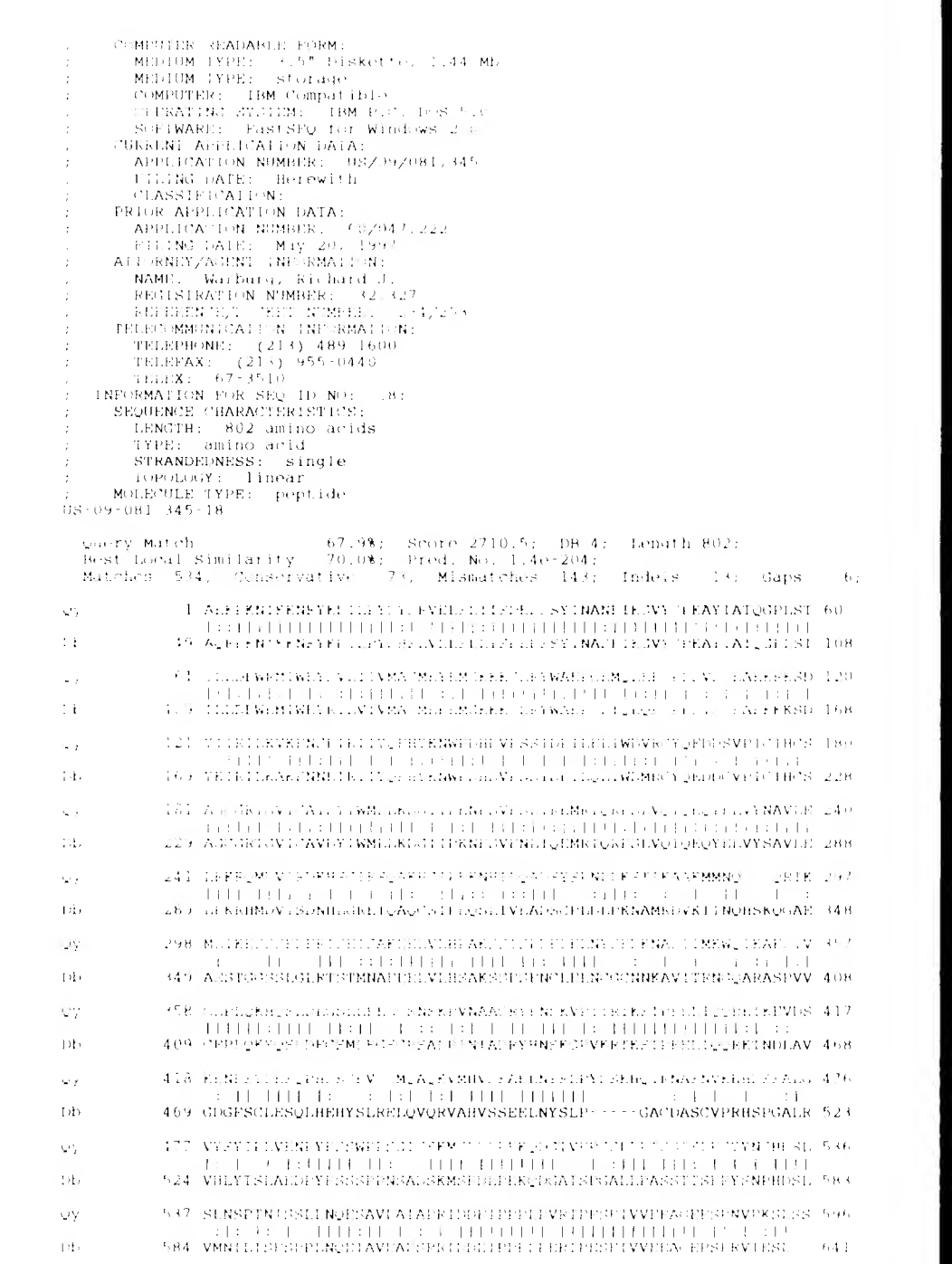
RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228841
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 223/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 5989; DB 4; Length 807;
Best Local Similarity 100.0%; Pred. No. 4.7e-405;



; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; MEDIUM TYPE: Storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 244/290
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081,345-18

Query Match 67.9%; Score 2710.5; DB 4; Length 802;
Best Local Similarity 70.0%; Pred. No. 1.4e-204;
Matches 534; Conservative 79; Mismatches 143; Indels 13; Gaps 6;



RESULT 4
US-08-821-278A-19
; Sequence 19, Application US/08821278A
; Patent No. 5723592
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: PI010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 19
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo Sapien
US-08-821-278A-19

Query Match 31.4%; Score 1247; DB 4; Length 278;
Best Local Similarity 88.5%; Prod. No. 3e-90;
Matches 234; Conservative 19; Mismatches 10; Indels 0; Gaps 0;

Qy 1 AEKEPNIEENRYFDILPYDYSRVELSLITSDEIQSSYINANFIKGVYGPKAYIATQGPLST 60
Db 26 AEEENNVEANRYFDILPYDYSRVELSLITSDEIQSSYINASFIKGVYGPKAYIATQGPLST 85

Qy 61 LLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSD 120
Db 86 LLDFWRMIWEYSILVIVMACMEFEMGKKKCERYWAEPGETQIQFGPFSISCEAEKKKSD 145

Qy 121 YIIRILKVKFNSFPTFIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCS 180
Db 146 YKIRILKVKFNNFPTFIYQFHYKNWPDHDVPSSIDPILQLIWDMRCYQETDCVPICIHCS 205

Qy 181 AGCGLTGVIVASILYTWMLIKDGIIPKNFSVPNLIQEMRTQRPSLVQTQEQYELVYSAVLE 240
Db 206 AGCGRTGVICAVDYTWMLLKDGIIPKNFSVPNLIQEMRTQRPSLVQTQEQYELVYSAVLE 265

Qy 241 IFKEQMDVIEDKH 253
Db 266 IFKEHMDVISDNH 278

RESULT 4
US-08-821-278A-19
; Sequence 19, Application US/08821278A
; Patent No. 5723592
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: PI010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 19
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo Sapien
US-08-821-278A-19

Query Match 28.7%; Score 945; DB 4; Length 278;
Best Local Similarity 68.2%; Prod. No. 1.6e-66;
Matches 167; Conservative 40; Mismatches 38; Indels 0; Gaps 0;

Qy 2 EKEPNIEENRYFDILPYDYSRVELSLITSDEIQSSYINANFIKGVYGPKAYIATQGPLST 61
Db 27 EEEENVEANRYFDILPYDYSRVELSLITSDEIQSSYINASFIKGVYGPKAYIATQGPLST 86

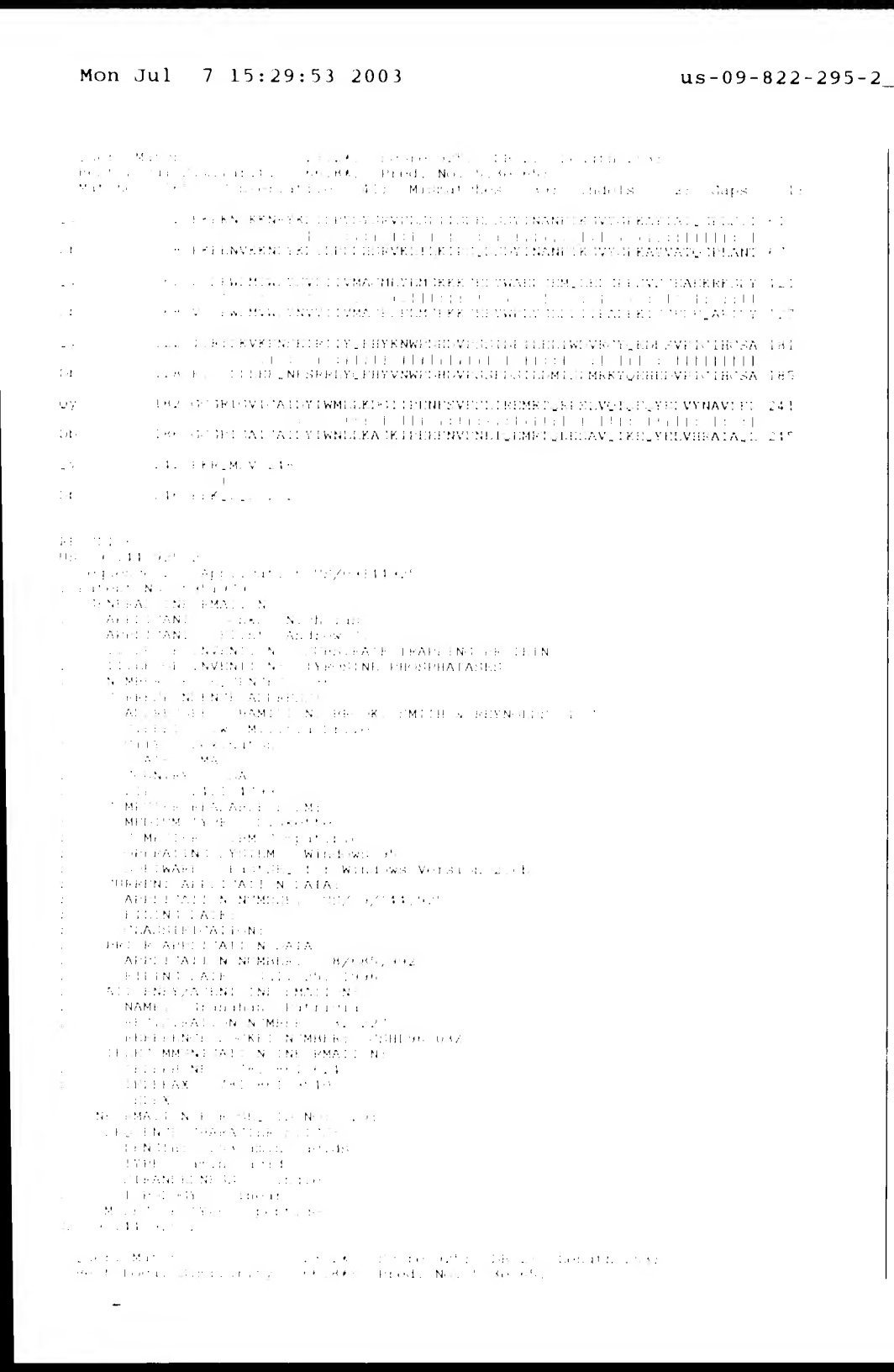
Qy 62 LLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEFGPFSVSCEAEKRKSD 121
Db 87 YIIRILKVKFNSFPTFIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQETDSVPICIHCS 146

Qy 122 YIIRILKVKFNSFPTFIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQETDSVPICIHCSA 181
Db 147 YKIRILKVKFNNFPTFIYQFHYKNWPDHDVPSSIDPILQLIWDMRCYQETDCVPICIHCSA 206

Qy 182 GCGRTGVICAIDYIWMLLKHGIIPKNFSVPSLIEEMRTQRPSLVQTQEQYELVYNAVLEL 241
Db 207 GCGRTGAICAIDYIWNLLKAGKTPI PSVPSLIEEMRSQRFSAVQTKEQLYFLYHEAILQL 266

Qy 242 FKRQM 246
Db 267 FKKQL 271

RESULT 5
US-08-685-992-20
; Sequence 20, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/685,992
; FILING DATE: 25-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Cranahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: CSHL
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 253 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-685-992-20



Matches 165; Conservative 41; Mismatches 89; Indels 2; Gaps 1;

RESULT 7
US/08/951-260A-7
; Sequence 7, Application US/08951260A
; Patent No. 6004791
; GENERAL INFORMATION:
; APPLICANT: Aoki, Naohito
; APPLICANT: Bilick, Axel
; TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
; TITLE OF INVENTION: AND RELATED POLYPEPTIDES AND METHODS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/951,260A
; FILING DATE: October 16, 1997
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/030,860
; FILING DATE: No. 6004791ember 13, 1996
; APPLICATION NUMBER: PCT/JP97/00946
; FILING DATE: June 17, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/004
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US/08/951-260A-7

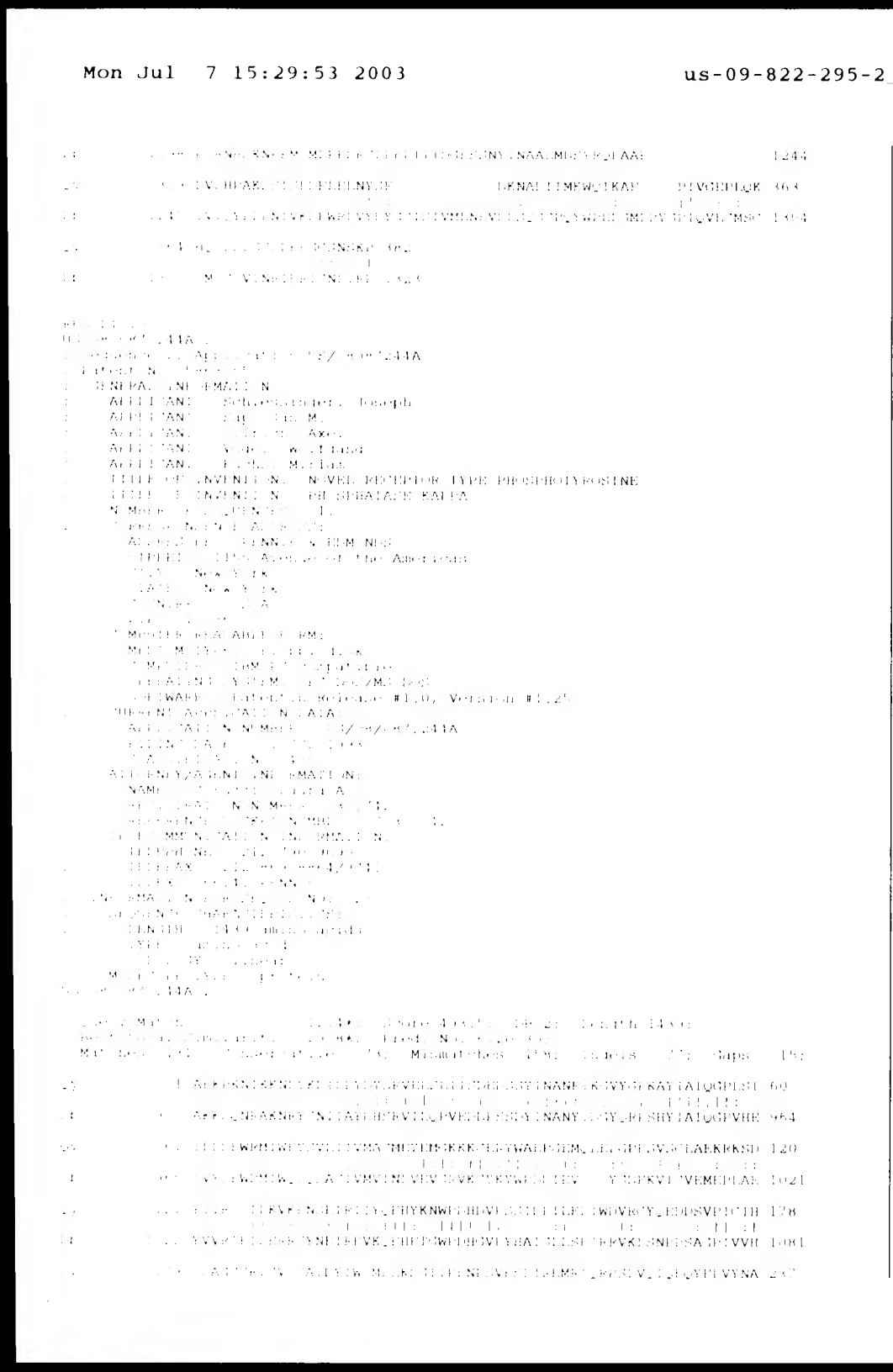
Query Match 17.9%; Score 716; DB 3; Length 453;
Best Local Similarity 46.7%; Pred. No. 3.5e-48;
Matches 142; Conservative 46; Mismatches 90; Indels 26; Gaps 5;

RESULT 8
US-08-821-278A-2
; Sequence 2, Application US/08821278A
; Patent No. 5869029
; GENERAL INFORMATION:
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 2
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Mus Musculus
US-08-821-278A-2

Query Match 17.7%; Score 707.5; DB 4; Length 453;
Best Local Similarity 48.6%; Pred. No. 1.6e-47;
Matches 134; Conservative 51; Mismatches 84; Indels 7; Gaps 4;

US-08-449-644-2
; Sequence 2, Application US/08449644
; Patent No. 5856162
; GENERAL INFORMATION:
; APPLICANT: Schlessinger, Joseph
; APPLICANT: Sap, Jan M.
; APPLICANT: Ullrich, Axel
; APPLICANT: Vogel, Wolfgang
; APPLICANT: Fuchs, Miriam
; TITLE OF INVENTION: NOVEL RECEPTOR TYPE PHOSPHOTYROSINE
; TITLE OF INVENTION: PHOSPHATASE-KAPPA
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/449,644
; FILING DATE: 24-MAY-1995
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/087,244
; FILING DATE: 01-JUL-1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Corluzzi, Laura A.
; REGISTRATION NUMBER: 40,742
; REFERENCE/DOCKET NUMBER: 2683-042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212-869-8864/9741
; TELEX: 66141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1439 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-449-644-2

Query Match 12.4%; Score 493.5; DB 2; Length 1439;
Best Local Similarity 29.8%; Pred. No. 6.2e-30;
Matches 131; Conservative 73; Mismatches 158; Indels 77; Gaps 15;



RESULT 11
US 08-854-585 2
; Sequence 2, Application US/08854585
; Patent No. 6114140
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas K. and Sturm, Arne
; TITLE OF INVENTION: Density Enhanced Protein Tyrosine Phosphatase
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
; STREET: 233 South Wacker Drive, Suite 6300
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/854,585
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/60/029,940
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 2366/31954
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1337 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US 08-854-585 2

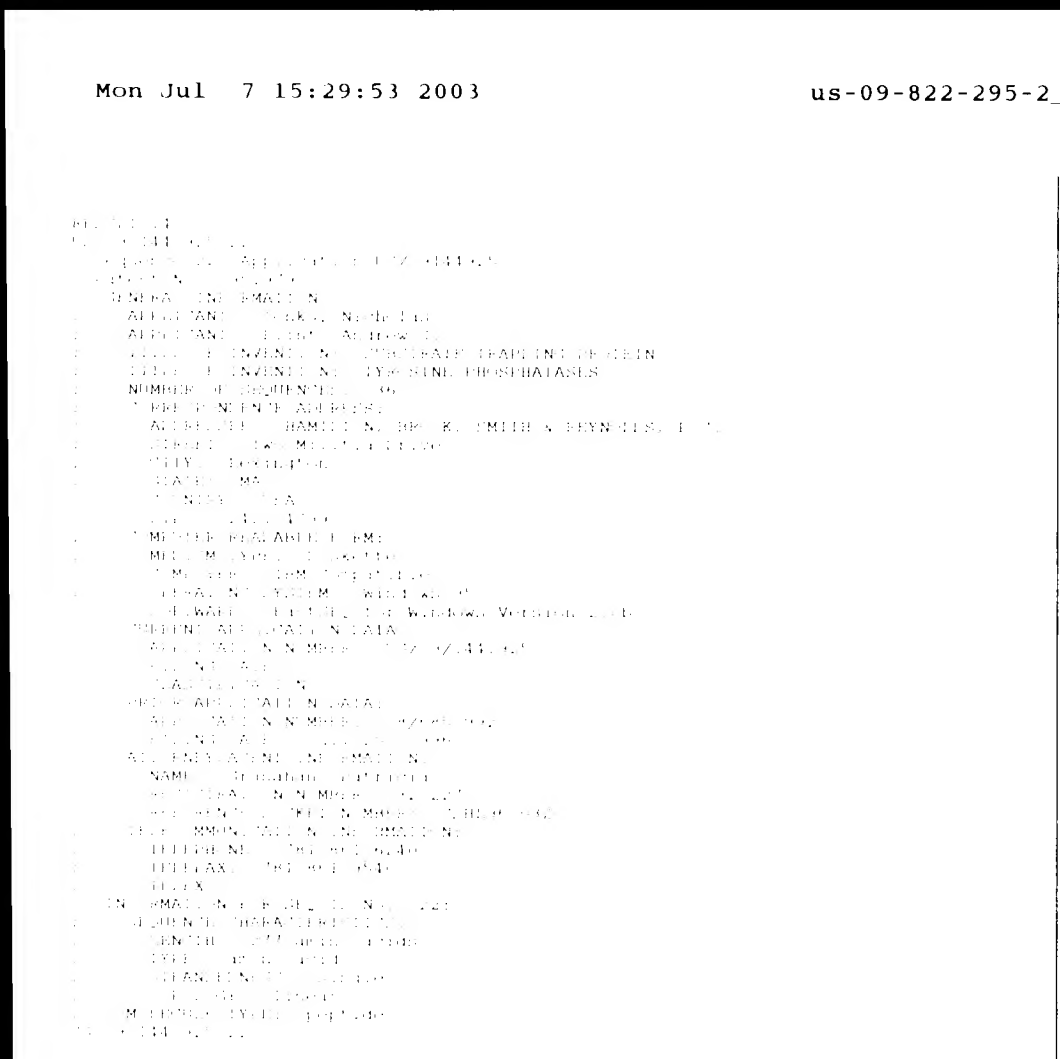
Query Match 12.4%; Score 193; DB 3; Length 1337;
Best Local Similarity 41.3%; Prod. No. 6.1e-30;
Matches 104; Conservative 45; Mismatches 91; Indels 12; Gaps 6;

RESULT 12
P*I US09*22512_2
; Sequence 2, Application PC/TUS9505512
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas K. and Neiman, Arne
; TITLE OF INVENTION: Density Enhanced Protein Tyrosine
; TITLE OF INVENTION: Phosphatase
; NUMBER OF SEQUENCES: 6
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Marshall, O'Toole, Gerstein, Murray &
; STREET: 233 South Wacker Drive, Suite 6300
; CITY: Chicago
; STATE: Illinois
; COUNTRY: United States of America
; ZIP: 60606
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/05512
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Borun, Michael F.
; REGISTRATION NUMBER: 25,447
; REFERENCE/DOCKET NUMBER: 27866/31954
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 312-474-6300
; TELEFAX: 312-474-0448
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1387 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
PT US09*22512_2

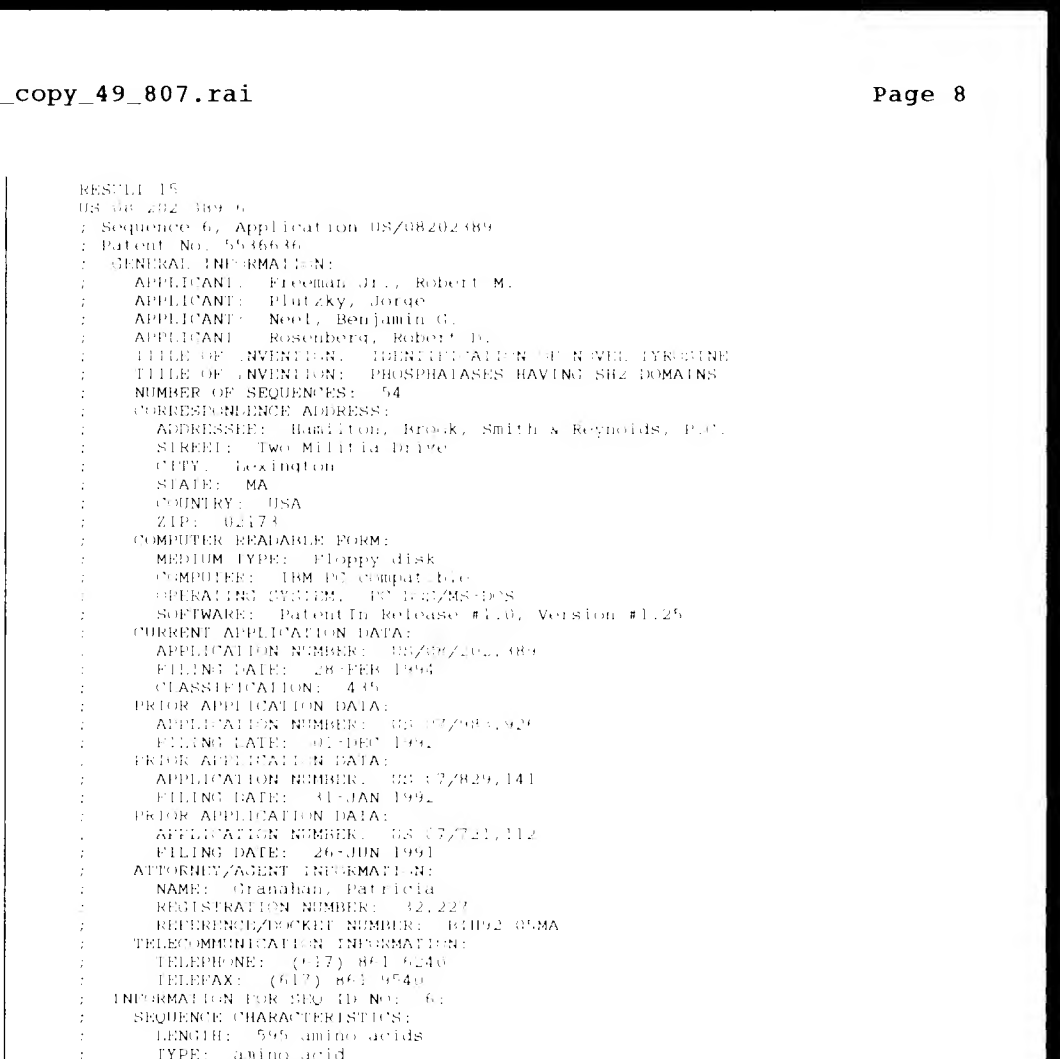
Query Match 12.4%; Score 493; DB 5; Length 1387;
Best Local Similarity 41.3%; Pred. No. 6.1e-30;
Matches 104; Conservative 45; Mismatches 91; Indels 12; Gaps 6;

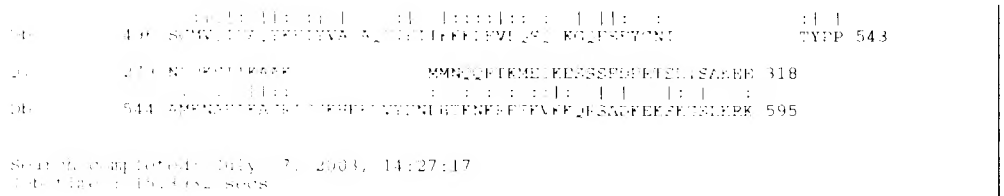
RESULT 13
US-08-685-992-22
; Sequence 22, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/685,992
; FILING DATE: 25-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: CSHL96.03
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6240
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 277 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-685-992-22

Query Match 12.4%; Score 491; DB 2; Length 277;
Best Local Similarity 38.0%; Pred. No. 7.9e-30;
Matches 105; Conservative 40; Mismatches 89; Indels 42; Gaps 7;



RESULT 15
US-08-202-389-6
; Sequence 6, Application US/08202389
; Patent No. 5536636
; GENERAL INFORMATION:
; APPLICANT: Freeman Jr., Robert M.
; APPLICANT: Plutzky, Jorge
; APPLICANT: Neel, Benjamin G.
; APPLICANT: Rosenberg, Robert D.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL TYROSINE
; TITLE OF INVENTION: PHOSPHATASES HAVING SH2 DOMAINS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compat.b/o
; OPERATING SYSTEM: PC DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/202,389
; FILING DATE: 28-FEB 1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/908,929
; FILING DATE: 01-DEC 199.
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/829,141
; FILING DATE: 31-JAN 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/721,112
; FILING DATE: 26-JUN 1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: 6189P2 US-MA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861 6240
; TELEFAX: (617) 861 9540
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 595 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-202-389-6





GenCore version 5.1.6

Y pi Search, protein search, using sw model

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Title: US-09-822-295-2_COPY_1_294
Perfect score: 1563
Sequence: 1 MSLRETLKETLEEAVSEKEI.....PLEQYFELVYNAVLELFPQM 294

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13: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep:*
14: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Prot. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1563	100.0	807	10	US-09-822-295-2	Sequence 2, Appli
2	1417	90.7	802	10	US-09-822-295-18	Sequence 18, Appl
3	943	60.3	312	10	US-09-788-626-21	Sequence 21, Appl
4	756.5	48.4	448	9	US-10-087-993-32	Sequence 32, Appl
5	756.5	48.4	453	9	US-10-243-687-7	Sequence 7, Appli
6	727	46.5	458	9	US-10-087-993-36	Sequence 36, Appl
7	725.5	46.4	264	9	US-10-245-539-6	Sequence 6, Appli
8	660.5	42.2	1463	9	US-10-176-847-22	Sequence 22, Appl
9	660.5	42.2	1468	9	US-10-205-933-343	Sequence 343, App
10	496	31.7	341	10	US-09-788-626-23	Sequence 23, Appl
11	477	30.4	305	10	US-09-788-626-9	Sequence 9, Appli
12	474.5	30.4	595	10	US-09-920-021A-1	Sequence 1, Appli
13	474.5	30.4	844	9	US-10-072-036-117	Sequence 117, App
14	474.5	30.4	859	9	US-10-072-036-119	Sequence 119, App
15	471	30.1	594	10	US-09-920-021A-3	Sequence 3, Appli
16	470.5	30.1	342	10	US-09-925-300-950	Sequence 950, App
17	47	30.1	1948	9	US-09-808-602-55	Sequence 55, Appl
18	47	30.1	1948	9	US-09-800-198-45	Sequence 45, Appl
19	466	29.8	597	9	US-10-038-010-22	Sequence 22, Appl
20	465	29.8	819	10	US-09-788-626-6	Sequence 6, Appli
21	464	29.7	1502	9	US-09-808-602-54	Sequence 54, Appl
22	464	29.7	1502	9	US-09-800-198-44	Sequence 44, Appl
23	462.5	29.6	1093	9	US-10-245-539-4	Sequence 4, Appli
24	462.5	29.6	1118	9	US-10-245-539-2	Sequence 2, Appli
25	462.5	29.6	1118	9	US-10-245-539-8	Sequence 8, Appli
26	461.5	29.5	294	10	US-09-788-626-27	Sequence 27, Appl
27	461	29.5	248	9	US-10-205-231-10	Sequence 10, Appl
28	461	29.5	248	10	US-09-848-294-10	Sequence 10, Appl
29	461	29.5	309	10	US-09-788-626-12	Sequence 12, Appl
30	457.5	29.3	2301	9	US-09-822-881-4	Sequence 4, Appli
31	455	29.1	2414	9	US-09-903-000A-6	GENERAL INFORMA.1
32	455	29.1	2353	9	US-09-903-000A-4	Sequence 4, Appli
33	454.5	29.1	281	10	US-09-788-626-28	Sequence 28, Appl
34	451.5	28.9	2291	9	US-09-822-881-2	Sequence 2, Appli
35	449.5	28.8	316	10	US-09-788-626-5	Sequence 5, Appli
36	449.5	28.8	316	10	US-09-788-626-26	Sequence 26, Appl
37	449	28.7	317	10	US-09-788-626-4	Sequence 4, Appli
38	448.5	28.7	2308	12	US-10-205-954-2	Sequence 2, Appli
39	447	28.6	313	10	US-09-788-626-17	Sequence 17, Appl
40	446	28.5	325	10	US-09-788-626-13	Sequence 13, Appl
41	443	28.3	313	10	US-09-788-626-7	Sequence 7, Appli
42	442.5	28.2	922	10	US-09-788-626-14	Sequence 14, Appl
43	441	28.2	913	9	US-10-294-231-2	Sequence 2, Appli
44	441	28.2	913	10	US-09-848-294-2	Sequence 2, Appli
45	438.5	28.1	979	9	US-10-038-686-6	Sequence 6, Appli

ALIGNMENTS

```
RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
  Patent No. US20020119501A1
    GENERAL INFORMATION:
         APPLICANT: Bahija Jallal
                    Gregory D. Plowman
         TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
                             PTP04 RELATED DISORDERS
         NUMBER OF SEQUENCES: 18
         CORRESPONDENCE ADDRESS:
              ADDRESSEE: Lyon & Lyon
              STREET: 633 West Fifth Street
                      Suite 4700
              CITY: Los Angeles
              STATE: California
              COUNTRY: U.S.A.
              ZIP: 90071-2066
         COMPUTER READABLE FORM:
              MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
                           storage
              COMPUTER: IBM Compatible
              OPERATING SYSTEM: IBM P.C. DOS 5.0
              SOFTWARE: FastSEQ for Windows 2.0
         CURRENT APPLICATION DATA:
              APPLICATION NUMBER: US/09/822,295
              FILING DATE: 02-Apr-2001
              CLASSIFICATION: <Unknown>
         PRIOR APPLICATION DATA:
              APPLICATION NUMBER: 09/081,345
              FILING DATE: <Unknown>
         ATTORNEY/AGENT INFORMATION:
              NAME: Warburg, Richard J.
              REGISTRATION NUMBER: 32,327
              REFERENCE/DOCKET NUMBER: 234/253
         TELECOMMUNICATION INFORMATION:
              TELEPHONE: (213) 489-1600
              TELEFAX: (213) 955-0440
              TELEX: 67-3510
    INFORMATION FOR SEQ ID NO: 2:
         SEQUENCE CHARACTERISTICS:
              LENGTH: 807 amino acids
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; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US-09-822-295-18

Query Match 90.7%; Score 1417; DB 10; Length 802;
Best Local Similarity 87.8%; Pred. No. 1.8e-130;
Matches 259; Conservative 22; Mismatches 14; Indels 0; Gaps 0;

Qy 1 MDQPPEILQKPILDPEAQSPKTCKEIFANGTCKEKPQSTKYKAPCKIYFTVAEPPPNIPKNRY 60
MDQPPEILQKPILDPEAQSPKTCKEIFANGTCKEKPQSTKYKAPCKIYFTVAEPPPNIPKNRY
Db 1 MDQPPEILQKPILDPEAQSPKTCKEIFANGTCKEKPQSTKYKAPCKIYFTVAEPPPNIPKNRY 60

Qy 61 KDILPYEYSRVELSLITSDESSAYINANFIKGVYEPKAYIAAQGPLSTIEDFWRMIWEY 120
KDILPYEYSRVELSLITSDESSAYINANFIKGVYEPKAYIAAQGPLSTIEDFWRMIWEY
Db 61 KDILPYEYSRVELSLITSDESSAYINANFIKGVYEPKAYIAAQGPLSTIEDFWRMIWEY 120

Qy 121 SVLIIVMACMEYEMGKEKCERYWAEKSMQLEFGKKLDLPGVEFRDAEEKSDYFIRTIEVKEPNS 180
SVLIIVMACMEYEMGKEKCERYWAEKSMQLEFGKKLDLPGVEFRDAEEKSDYFIRTIEVKEPNS
Db 121 RILVIVMACMEFEMGKEKCERYWAEKSVQLEFGKKLDLPGVEFRDAEEKSDYFIRTIEVKEPNS 180

Qy 181 EIRITYQFHYKNWPDHDVPTSSHPFLSLIWEMRCYQEDDSVPICYHCSAGCGRTGVICAI 240
EIRITYQFHYKNWPDHDVPTSSHPFLSLIWEMRCYQEDDSVPICYHCSAGCGRTGVICAV
Db 181 EIRITYQFHYKNWPDHDVPTSSHPFLSLIWEMRCYQEDDCVPICYHCSAGCGRTGVICAV 240

Qy 241 DYIWMLLKHCRIIPSFNEAVGPLLEFYMHPIQGPSLVQVQSQYEGVYNAVGRLKRQM 294
DYIWMLLKHCRIIPSFNEAVGPLLEFYMHPIQGPSLVQVQSQYEGVYNAVGRLKRQM
Db 241 DYIWMLLKHCRIIPSFNEAVGPLLEFYMHPIQGPSLVQVQSQYEGVYSAVIELFKRQM 294

RESULT 3
US-09-788-626-21
; Sequence 21, Application US/09788626
; Patent No. US20020090762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Cool, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASES
; FILE REFERENCE: 200125.40C
; CURRENT APPLICATION NUMBER: 09/788,626
; CURRENT FILING DATE: 2001-02-13
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo Sapiens
US-09-788-626-21

Query Match 60.3%; Score 943; DB 10; Length 312;
Best Local Similarity 66.9%; Pred. No. 1.9e-84;
Matches 168; Conservative 40; Mismatches 41; Indels 2; Gaps 1;

Qy 44 YEIIVAEEIPNIEKENSKYECIEYEYEPVELCISLESFEKSEVNANEIKVVKYRPAYIAIQ 103
Db 2 YEIIAIGEKQSGVKEHSKFICIDLKAPLDSGRSTLKLAAFEWPDMSIPEDIGPVTHLVTQ 61

Qy 104 GPLSTILLDFWRMIWEYSVLIIVMACMEYEMGKEKCERYWAEKSLMQLEFGFPLSVSCQAE 163
Db 62 GPLKGVICDFWEMVWEYNVVIIVMATCEEREMGREKCERYWPDETEIQFKFTVVDQMKLAYT 121

Qy 164 KSDYIIRTLKVKFANETDRTVRQFHFTSWPDHGVPESPHSLLSFVRKVQKSRSQDPMSPIV 223
Db 122 QAKIDYFI LELEEFQNESSKIYQFHYVNWPDHGVPESSPDSILDMISLMKKYQEHEDVPIT 179

Qy 224 CTHCSAGCGRTGVICAILYTWMLLKDGIIPENFSVFSLIREMRTQRPSLVQTQEQYEFLVY 283
Db 180 CTHCSAGCGRTGAICAILSIWNLLKAGKIPEEINVPETIQTMRTQRHSAVQTKEQYEFVH 239

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Qy          1 MAVLFKKLMKKSIGKLASVGKVAMDKLGKKGVDSVANKQEALSHLDKVKTQFSELSKLE 60
              ||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|||:|
Db          1 MAVLFKKLMKKSIGKLASVGKVAMDKLGKKGVDSVANKQEALSHLDKVKTQFSELSKLE 60

Qy         61 KSGELSQSELMEVQTLKTDLQIVTNSVDVSNGCKELGLLGVVESVKAGLKQVNSQLDPVL 120
              |||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db         61 KSGELSQSELMEVQTLKTDLQIVTNSVDVSNGCKELGLLGVVESVKAGLKQVNSQLDPVL 120

Qy        121 QTGSLNTIKVSLQAAIAQMEAVTGSGSEIAMGMAGMLKTAFSTVGSIFGELTGLYSQLGP 180
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        121 QTGSLNTIKVSLQAAIAQMEAVTGSGSEIAMGMAGMLKTAFSTVGSIFGELTGLYSQLGP 180

Qy        181 ETRTIYQFHYKNWPDHGVPSSSDHTLEMVEEARQLQGLGPGFLQVHKSAGVGEIGVLQAV 240
              ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        181 ESRPVHQLQYMSWPDHGVPSSSDHTLEMVEEARQLQGLGPGFLQVHKSAGVGEIGVLQAV 240

Qy        241 DYTWMLLFEDTIDIEMNFSVDSDSEMPKLFSIVNLQLMPYVYNAVIDPFRQM 294
              ||||||||||||||||||||||||||||||||||||||||||||||||||||
Db        241 DYTWMLLFEDTIDIEMNFSVDSDSEMPKLFSIVNLQLMPYVYNAVIDPFRQM 294


RESULT 5
US-10-243-687-7
; Sequence 7, Application US/10243687
; Publication No. US20030073120A1
;   GENERAL INFORMATION:
;        APPLICANT: Aoki, Nobuhiro
;                   Ulrich, Axel
;        TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
;                            AND RELATED POLYPEPTIDES AND METHODS
;        NUMBER OF SEQUENCES: 7
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: Lyon & Lyon
;             STREET: 633 West Fifth Street
;                     Suite 4700
;             CITY: Los Angeles
;             STATE: California
;             COUNTRY: U.S.A.
;             ZIP: 90071-2066
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: 3.5" Diskette, 1.44 MB
;                          storage
;             COMPUTER: IBM Compatible
;             OPERATING SYSTEM: IBM P.C. DOS 5.0
;             SOFTWARE: FastSEQ for Windows 2.0
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/10/243,687
;             FILING DATE: 16 Sep 2002
;             CLASSIFICATION: Unknown
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: US/09/877,150
;             FILING DATE: June 7, 1997
;             APPLICATION NUMBER: U.S. 60/019,629
;             FILING DATE: June 17, 1996
;             APPLICATION NUMBER: U.S. 60/023,485
;             FILING DATE: August 9, 1996
;             APPLICATION NUMBER: U.S. 60/030,869
;             FILING DATE: Nov. US20020169403A1ember 13, 1996
;             APPLICATION NUMBER: U.S. 60/034,285
;             FILING DATE: December 19, 1996
;             APPLICATION NUMBER: U.S. 60/030,964
;             FILING DATE: Nov. US20020169403A1ember 15, 1996
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Warburg, Richard J.
;             REGISTRATION NUMBER: 32,327
;             REFERENCE/DOCKET NUMBER: 222/209
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (213) 489-1600
;             TELEFAX: (213) 955-0440
;             TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 7:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 458 amino acids
;             TYPE: amino acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
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; FILING DATE: December 19, 1996
; APPLICATION NUMBER: U.S. 60/030,964
; FILING DATE: No. US9620169 8Aember 15, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 225/298
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955 0440
; TELEX: 67 3510
; INFORMATION FOR SEQ ID NO: 96:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 458 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 96:
US 10 087 994-96

Query Match 46.5%; Score 727; DB 9; Length 458;
Best Local Similarity 50.2%; Pred. No. 5.2e 63;
Matches 134; Conservative 49; Mismatches 82; Indels 2; Gaps 2;

Qy 25 ANFPLKFKFQSTKYKALATVPLIVAEKLKNLEKNKYKDISLPYDYSRVELSEIDSPDSSY 84
Db 27 AGEFSDIQACSAAWKALATVACSIVAGSRTLNVEKNKYKPVLPYDYSTKVELSSLQLESGHSDY 86

Qy 85 INANFIKSVESKAYIATQGPLSSTIGDFWEMIWEYSVLIVMACMEYEMGKEKCERYWA 144
Db 87 LNGNFIKSVVIAGSLAYIALQAPLPHTLGDFWRLVWEFGVKVIVMACKEFENGKKKCERYWA 146

Qy 145 EPGEMQLLEFGFTVKSLKAQKTAKSVYQLEFVSWPDHGVPESTDSLLSFVRYVRYQNYIDP 204
Db 147 QEQEPLQTGLFCTILIKEKWFLNEDIMLKFLKVIFQKESKSVYQLQYMSWPDRGVPESSPD 205

Qy 204 PILFLIWDVPCYQFDDSVPIKCIRCSAGCGRTGVICAIDYTWMLLKNGIIPENFSVPSLIR 263
Db 206 BMLAMVEEARRLQCSGPEPLCVHCSAGCGRTGVLCTVDYVRQLLLTQMIPPDFSLFDVVL 265

Qy 264 EMRTQRPSLVQTQEQYEFVYNAVLELF 290
Db 266 KMKKQRPAAVQTEEQYKFLYHIVAQMF 292

RESULT 7
US 10-245 539-6
; Sequence 6, Application US/10245539
; Publication No. US20030077638A1
; GENERAL INFORMATION:
; APPLICANT: Logan, Thomas Joseph
; TITLE OF INVENTION: MID 4460, A HUMAN TYROSINE PHOSPHATASE
; TITLE OF INVENTION: FAMILY MEMBER AND USES THEREFOR
; FILE REFERENCE: MP101 155PIRM
; CURRENT APPLICATION NUMBER: US/10/245,539
; CURRENT FILING DATE: 2002-12 05
; PRIOR APPLICATION NUMBER: 60/323,018
; PRIOR FILING DATE: 2001 09-18
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 264
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: consensus sequence
US-10-245 539-6

Query Match 43.6%; Score 525.5; DB 9; Length 264;
Best Local Similarity 44.7%; Pred. No. 1.5e 43;
Matches 118; Conservative 43; Mismatches 74; Indels 2; Gaps 2;

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Qy          94 KYKA---DKTYPITVAPFKFNIKVSNVVYKDSVVLSYFSDFDSSYINANFIKGV 143
               :|:|    :|      |:: :|  |||| :|: |:|: || | :|   |  | ||| |:|:|
Db         914 EYEALPFCQIASWDIAKEDENRNKNRYGNIISYDHSRVRLLVLDGDPHSDYINANYIDGY 973

Qy          94 YGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWAEPGEMQLEF 153
               : |: |||||||  |: |||.|||: :  :||     |:|: || ||| :  |:   :
Db         974 HRPRHYIATQGPMQETVKDFWEMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEV---Y 1030

Qy         154 GPFSVSCEAEKKKSDYIIRTLKV- KFNSEIRTIYQFHYKNWPDHDVPSSIDPILELIWD 211
                |  |:    : ::|:|||  |  |     |: :|:|||| ||     :|  :
Db        1031 GDIKVTLIETEPLAEYVIRTFTVEKKGYHEIREFRLFHFTSWPDHGVPCYATGLLGFVRQ 1090

Qy         212 VRCYQEDDSVPICIHCSAGCGRTGVICAIDYTW-MLLKDGIIPENFSVFSLIREMRTQRP 270
               :    :: || :|||| |||   |||     |  :|::     : :|||| ||
Db        1091 VKFLNPFEAGPIVVHCSAGAGRTGCFIAIDIMLDMAENEGVV----DIFNCVRELRAQRV 1146

Qy         271 SLVQTQEQYELVYNAVLE 288
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Db        1147 NLVQTEEQYVFVHDAILE 1164


RESULT 10
US-09-788-626-23
; Sequence 23, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
;  APPLICANT: Flint, Andrew J.
;  APPLICANT:  Cool, Deborah E.
;  TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
;  TITLE OF INVENTION:  PHOSPHATES
;  FILE REFERENCE: 200125.401
;  CURRENT APPLICATION NUMBER: US/09/788,626
;  CURRENT FILING DATE:  2001-02-15
;  NUMBER OF SEQ ID NOS: 40
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 23
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RESULT 12
US-09-920-021A-1
; Sequence 1, Application US/09920021A
; Patent No. US20020110800A1
; GENERAL INFORMATION:
; APPLICANT: KAPLAN, DAVID
; APPLICANT: MARSH, H. NICK
; TITLE OF INVENTION: USE OF SHP-1 AND SHP-2 TO DETECT
; TITLE OF INVENTION: COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
; FILE REFERENCE: 0756/016001
; CURRENT APPLICATION NUMBER: US/09/920,021A
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 09/08/918,157
; PRIOR FILING DATE: 1997-08-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-920-021A-1

Query Match 30.4%; Score 474.5; DB 10; Length 595;
Best Local Similarity 38.9%; Pred. No. 4.6e-38;
Matches 116; Conservative 50; Mismatches 100; Indels 37; Gaps 11;

Qy 15 QSKELIKELANLLKLRGPQELFYFADVYVLKEEVEIYRNKSGKLWELWKYKRVELS 74
Db 225 EGEDIAEAIPWEFPRKLRLGKDVE NLSLKLKLSKPDNEGKNSEYENILLFFDHSRVILQ 284

Qy 75 LIKD EDFGYINANFIEGVTGP EKAYIAIQGPLPTTLIDFWRMIWEYGVLIIVMA 128
Db 285 GKDSNIIGSDYINANYIKNSLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT 344

Qy 129 MMEYEMGKEKCKKYWAEKPFKMQLEFKDVERSVKQVAQALFDKKLNMEMYNVSPRQKPLP 188
Db 345 TKEVEKGKNKCVFYWPEVG MQRAYGPYSVTNCGEHDTEDYKLRTLQVSPLDNGDLIRET 404

Qy 189 YLFWPDHGVPSEPGGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTLIVID 242
Db 405 WHYQYLSWPDHGVPSEPGGVLSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTLIVID 464

Qy 243 WMLEKIRDKKFIDPNFPVVSL IKDMMTQGPSQYIGASVKFPTQIKQYIELVYNAV EELEK 302
Db 465 MLMENISTKGLECDHILKILGMVLRAGPSQMVGLTEALEYRIYVAIALFELSK 520

Qy 303 RQM 305
Db 521 KKL 523

RESULT 13
US-10-072-036-117
; Sequence 117, Application US/10072036
; Publication No. US20030060564A1
; GENERAL INFORMATION:
; APPLICANT: Olaf CHASTRUP
; APPLICANT: Sara SOREN
; APPLICANT: Steen KNUDSEN
; APPLICANT: Kasper ALMHOLT
; APPLICANT: Kurt STUDER
; TITLE OF INVENTION: A Method for Extracting Quantitative Information Relating to A
; TITLE OF INVENTION: on A Cellular Response
; FILE REFERENCE: 4759-0120P
; CURRENT APPLICATION NUMBER: US/10/072,036
; CURRENT FILING DATE: 2002-09-13
; PRIOR APPLICATION NUMBER: 09/417,197
; PRIOR FILING DATE: 1999-10-07
; NUMBER OF SEQ ID NOS: 145
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 117

LEN-th: 843
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: PSI EGF fusion

Query Match 30.4%; Score 474.5; DB 9; Length 843;
Best Local Similarity 38.8%; Pred. No. 7.4e-38;
Matches 116; Conservative 50; Mismatches 100; Indels 37; Gaps 11;

Qy 15 QSKKITKEEPANPFLKLKPQSTKYKADKTYDTTVAEKPKNIKKNKYKDILPYDYSPVELS 74
Db 427 ESEDIAFAVFWMPEFPSLQKQPVF----NLDQPEPQQPPENKGKNEYKNILPEPDHSPVILQ 592

Qy 75 LITSDEDSSYINANFIKG-VYGP----KAYIATQGPLSTTLLDFWRMIWEYSVLIIVMA 128
Db 593 GKEQNITTGSGYINANYIKNQLLGTDDNAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT 652

Qy 129 CMEYEMCKEKCEEYWAEIPKMQLEPCEFSVSCTAEKRESTYIIRTLKVK--FNSE-TRTI 185
Db 653 EEVEF-KSKKKTFGNVKVKNHVSYNNMIFEFDVFTKSGEQGSLNMELAIDVLGF-SSWK 710

Qy 186 YQFHYKNWPDHGVPESGTGLIDLIAEVQKKQNQNNPLSPITVHCSAGVGRTGVICAIDYT 245
Db 711 WGYQPIQWTPDSKVESEPDGVLSELPEQIRSACEGLNVHLVKIPVQHGRTGTLIVIDV-- 768

Qy 246 WMLIEDEIDVFDFVRDFSVMRIQRVRMVQTQEQYIFIHQALVEYNAV---LELPK 299
Db 769 EEVEF-KSKKKTFGNVKVKNHVSYNNMIFEFDVFTKSGEQGSLNMELAIDVLGF-SSWK 826

Qy 300 RQM 302
Db 827 KKL 829

RESULT 14
US-09-822-295-2
Sequence 11, Application US/10072036
Publication No. US20030068504A1
GENERAL INFORMATION:
APPLICANT: Joe THASTRUP
APPLICANT: Jens BIRKEN
APPLICANT: Steve TOLLIN
APPLICANT: Kasper ALMHOLT
APPLICANT: Kurt SCHUNDER
TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating To An I
TITLE OF INVENTION: on A Cellular Response
FILE REFERENCE: 8759-0120P
CURRENT APPLICATION NUMBER: US/10/072,036
CURRENT FILING DATE: 2002-09-13
PRIOR APPLICATION NUMBER: 09/417,192
PRIOR FILING DATE: 1999-10-07
NUMBER OF SEQ ID NOS: 14
SOFTWARE: PatentIn version 3.0
SEQ ID NO 11
LENGTH: 853
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: PSI EGF fusion

Query Match 30.4%; Score 474.5; DB 9; Length 853;
Best Local Similarity 38.8%; Pred. No. 7.4e-38;
Matches 116; Conservative 50; Mismatches 100; Indels 37; Gaps 11;

Qy 15 QSKKITKEEPANPFLKLKPQSTKYKADKTYDTTVAEKPKNIKKNKYKDILPYDYSPVELS 74
Db 437 ESEDIAFAVFWMPEFPSLQKQPVF----NLDQPEPQQPPENKGKNEYKNILPEPDHSPVILQ 602

Qy 75 LITSDEDSSYINANFIKG-VYGP----KAYIATQGPLSTTLLDFWRMIWEYSVLIIVMA 128
Db 603 GKEQNITTGSGYINANYIKNQLLGTDDNAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT 662

Qy 129 CMEYEMCKEKCEEYWAEIPKMQLEPCEFSVSCTAEKRESTYIIRTLKVK--FNSE-TRTI 185
Db 663 EEVEF-KSKKKTFGNVKVKNHVSYNNMIFEFDVFTKSGEQGSLNMELAIDVLGF-SSWK 720

Qy 186 YQFHYKNWPDHGVPESGTGLIDLIAEVQKKQNQNNPLSPITVHCSAGVGRTGVICAIDYT 245
Db 721 WGYQPIQWTPDSKVESEPDGVLSELPEQIRSACEGLNVHLVKIPVQHGRTGTLIVIDV-- 778

Qy 246 WMLIEDEIDVFDFVRDFSVMRIQRVRMVQTQEQYIFIHQALVEYNAV---LELPK 299
Db 779 EEVEF-KSKKKTFGNVKVKNHVSYNNMIFEFDVFTKSGEQGSLNMELAIDVLGF-SSWK 836

Qy 300 RQM 302
Db 837 KKL 839

Search completed: July 7, 2003, 14:44:56
Job time : 14.6293 secs

GenCore version 5.1.6

Run on: protein search, using sw model

Run started: July 7, 2003, 14:22:05 ; Search time 5.57522 Seconds
(without alignments)
1551.569 Million cell updates/sec

Title: US-09-822-295-2_COPY_1_294
Perfect score: 2966
Sequence: 1 MDQRFILQRFIDPAQSKFIT.....TQEQYELVYNAVLELFKEQM 294

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 24422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_AA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.pep:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.pep:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.pep:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.pep:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.pep:*
6: /cgn2_6/ptodata/1/ina/backup/backlog.pep:*

Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

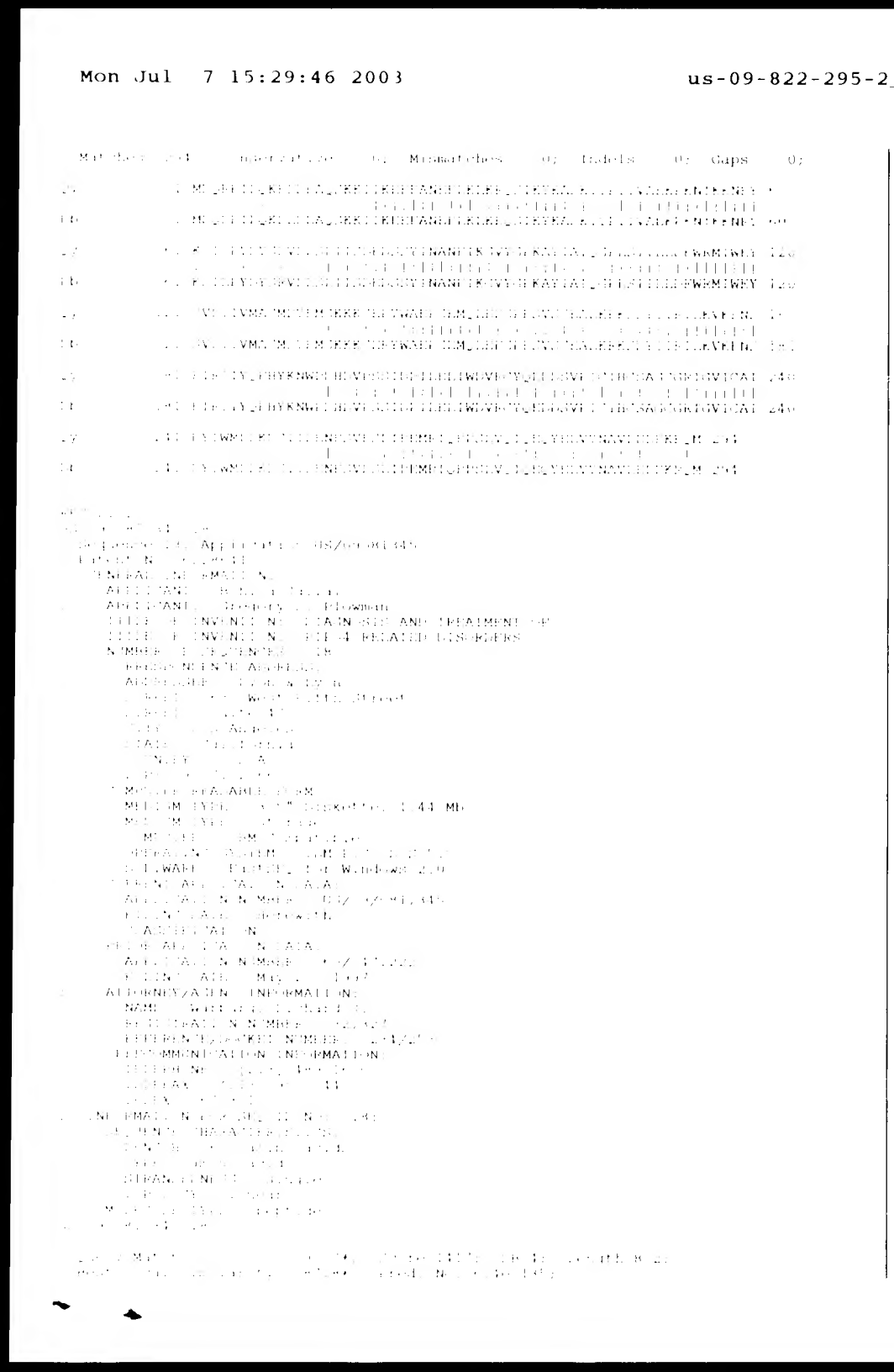
SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1563	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	1417	90.7	802	4	US-09-081-345-18	Sequence 18, Appl
3	1338	85.6	278	4	US-08-821-278A-18	Sequence 18, Appl
4	1314	84.0	272	4	US-08-821-278A-19	Sequence 19, Appl
5	943	60.3	253	2	US-08-685-992-20	Sequence 20, Appl
6	943	60.3	253	2	US-09-144-925-20	Sequence 20, Appl
7	760.5	48.6	458	3	US-08-951-260A-7	Sequence 7, Appli
8	748.5	47.8	458	4	US-08-821-278A-2	Sequence 2, Appli
9	501.5	32.1	1387	1	US-08-854-585-2	Sequence 2, Appli
10	501.5	32.1	1387	5	PCT-US95-05512-2	Sequence 2, Appli
11	490.5	31.4	1459	2	US-08-449-644-2	Sequence 2, Appli
12	490.5	31.4	1459	2	US-08-087-244A-2	Sequence 2, Appli
13	485	31.0	277	2	US-08-685-992-22	Sequence 22, Appl
14	485	31.0	277	2	US-09-144-925-22	Sequence 22, Appl
15	483	30.9	292	1	US-08-046-210-12	Sequence 12, Appl
16	483	30.9	292	2	US-08-449-609-12	Sequence 12, Appl
17	480.5	30.4	1452	2	US-08-652-971-4	Sequence 4, Appli
18	480.5	30.4	1452	2	US-08-991-258A-4	Sequence 4, Appli
19	480.5	30.4	1452	2	US-08-769-399-4	Sequence 4, Appli
20	480.5	30.4	1452	3	US-08-991-953A-4	Sequence 4, Appli
21	480.5	30.4	1452	2	US-08-449-644-8	Sequence 8, Appli
22	480.5	30.4	1452	2	US-08-087-244A-8	Sequence 8, Appli
23	484	30.6	1442	1	US-08-015-986A-3	Sequence 3, Appli
24	484	30.6	1442	2	US-08-446-363-3	Sequence 3, Appli
25	482.5	30.9	1457	2	US-08-652-971-3	Sequence 3, Appli
26	482.5	30.9	1457	2	US-08-449-644-1	Sequence 1, Appli
27	482.5	30.9	1457	2	US-08-087-244A-1	Sequence 1, Appli
28	482.5	30.9	1457	2	US-08-991-258A-3	Sequence 3, Appli
29	482.5	30.9	1457	2	US-08-769-399-3	Sequence 3, Appli
30	482.5	30.9	1457	3	US-08-991-953A-3	Sequence 3, Appli
31	481	30.8	593	1	US-08-618-179-5	Sequence 5, Appli
32	481	30.8	593	2	US-08-448-250-5	Sequence 5, Appli
33	476.5	30.5	595	1	US-08-282-389-6	Sequence 6, Appli
34	475	30.4	249	2	US-08-685-992-8	Sequence 8, Appli
35	475	30.4	249	2	US-09-144-925-8	Sequence 8, Appli
36	475	30.4	1445	1	US-08-015-986A-2	Sequence 2, Appli
37	475	30.4	1445	2	US-08-446-363-2	Sequence 2, Appli
38	474.5	30.4	631	1	US-08-282-389-8	Sequence 8, Appli
39	471	30.1	592	1	US-08-282-389-12	Sequence 12, Appl
40	467.5	29.9	792	1	US-09-215-989-3	Sequence 3, Appli
41	467.5	29.9	802	1	US-08-215-989-3	Sequence 3, Appli
42	465	29.8	263	2	US-08-685-992-5	Sequence 5, Appli
43	465	29.8	263	2	US-09-144-925-5	Sequence 5, Appli
44	464	29.7	1911	1	US-08-448-086B-5	Sequence 5, Appli
45	464	29.7	1911	2	US-08-086-826A-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP04 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 244/253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 1563; DB 4; Length 807;
Best Local Similarity 100.0%; Prod. No. 1e-149;



Matches 258; Conservative 22; Mismatches 14; Indels 0; Gaps 0;

RESULT 3
US/08/821,278A-18
; Sequence 18, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
; APPLICANT: Cheng, Jill
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 18
; LENGTH: 278
; TYPE: PRT
; ORGANISM: Homo Sapien
US/08/821,278A-18

Query Match 85.6%; Score 1438; DB 4; Length 278;
Best Local Similarity 89.3%; Pred. No. 1.4e-127;
Matches 242; Conservative 20; Mismatches 9; Indels 0; Gaps 0;

RESULT 4
US/08/821,278A-19
; Sequence 19, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
; APPLICANT: Cheng, Jill
; APPLICANT: Lasky, Laurence A.

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; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: PI0130RI
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 25
; SEQ ID NO 1
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Homo Sapien
US-08-821-278A-1

  Query Match              65.5%;  Score 1024;  DB 4;  Length 272;
  Best Local Similarity    66.4%;  Pred. No. 8.9e-96;
  Matches  180;  Conservative   46;  Mismatches   45;  Indels    0;  Gaps    0;

Qy          24 FANEFLKLKPQSSKYKNDKTYPTIVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSS 83
               |:  :::|:: |  |:  :: |||   || :|:|||||||||||:|:|:|:|  |  :||
Db           1 FARIFMPCPRSCPKYKYDPKTKPTATSPPFILVFKNEVFDILPLHLAVKLTLETPSQDSD 60

Qy          84 YINANFIKGVVGPKEAYIATQGPLSTTLIDFWRMIWEYSVLIIVMACMEYEMGKKKCERYW 143
               ||:|:|:|:|:|| |:|:|||||: |:|||||:|||:|:|||||' |:|||:|||||||
Db          61 YINANFIKVVVGPEAAYIAAQGPLANTVIDFWRMVWEYNVVIIVMACPEFEMGPKKCERYW 120

Qy         144 AEKPMEMLLEFGPFSVSCEAEKRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSID 203
               |  :  : :|| :|:: |: ::|| |||| :|| :|:| :|||   ||||||||||| |
Db         121 EYGPLFILTEAPFKLSCEDIQQARTDYFIRTLLLEFQNESSRTVQHFYYVNWPDHDVPSSFD 180

Qy         204 FLELIWEVRDYQEDDSVPICIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIR 263
               |:::  :|||:  : ||||||||||||||| |||||||| ||| | ||| |:|||:|:
Db         181 FLELMWEVRQYQEDDSVPICIHCSAGCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQ 240

Qy         264 EMRLQRPSLVQTQEQYELVYNAVLELFKRQM 294
               |:||   |||:|||||: |: :|||:|:
Db         241 EMRQQRPSAVQIKEQYEFVHRAIAQLFEKQL 271


RESULT 5
US-08-685-992-20
; Sequence 20, Application US/08685992
; Patent No. 5951979
; GENERAL INFORMATION:
;  APPLICANT: Tonks, Nicholas
;  APPLICANT: Flint, Andrew J.
;  TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
;  TITLE OF INVENTION: TYROSINE PHOSPHATASES
;  NUMBER OF SEQUENCES: 36
;  CORRESPONDENCE ADDRESS:
;  ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;  STREET: Two Militia Drive
;  CITY: Lexington
;  STATE: MA
;  COUNTRY: USA
;  ZIP: 02173
;  COMPUTER READABLE FORM:
;  MEDIUM TYPE: Diskette
;  COMPUTER: IBM Compatible
;  OPERATING SYSTEM: Windows 95
;  SOFTWARE: FastSEQ for Windows Version 2.0b
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/08/685,992
;  FILING DATE: 25-JUL-1996
;  CLASSIFICATION: 435
;  PRIOR APPLICATION DATA:
;  APPLICATION NUMBER:
;  FILING DATE:
;  ATTORNEY/AGENT INFORMATION:
;  NAME: Granahan, Patricia
;  REGISTRATION NUMBER: 32,227
;  REFERENCE/DOCKET NUMBER: OSHL96-03
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: 781-861-6240
;  TELEFAX: 781-861-9540
;  TELEX:
;  INFORMATION FOR SEQ ID NO: 20:
;  SEQUENCE CHARACTERISTICS:
;  LENGTH: 253 amino acids
;  TYPE: amino acid
;  STRANDEDNESS: single
;  TOPOLOGY: linear
;  MOLECULE TYPE: peptide
US-08-685-992-20

  Query Match              60.3%;  Score 943;  DB 2;  Length 253;
  Best Local Similarity    66.9%;  Pred. No. 1.3e-87;
  Matches  168;  Conservative   43;  Mismatches   41;  Indels    2;  Gaps    1;

Qy          44 YPTTVAEKPKNIKKNRYKDILPYDYSRVELSLITSDEDSSYINANFIKGVVGPKAYIATQ 103
               |||   || :|:|||||||||||:|:|:|:|  |  :|| ||||||||||-|||||:|?
Db           2 YPTATCEPVPPNVPPNRYKGILPFDHSRVVLSLETEDSSGYINANFIKSVVGLKAYVATQ 61

Qy         104 GPLSTTLIDFWRMIWEYSVLIIVMACMETEMGKKKCERYWAEPKPMEMLLEFGPFSVSCEAE 163
               |||: |:|||||:|||:|:|||||| |:|:|:|||| |   ||  : | || :|||
Db          62 QPLANTVIDFWEMVWEYNVVIIVMACLEVGNEKKICERYWPLTGKEGLEFPAFKLSCEDI 121

Qy         164 KRKSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSIGFLELIWEVRDYQEDDSVPI 223
               : :|| |  | :|: :|:| :|||  ||||||||||| | ||:|  :| |:| : |||
Db         122 QARTDYFI  LLEFQNESSRTVQHFYYVNWPDHDVPSSFDFLELMWEVRQYQEDDSVPI 179

Qy         224 CIHCSAGCGRTGVICAIDYTWMLLKDGIIPENFSVFSLIREMRLQRPSLVQTQEQYELVY 283
               |||||||||||| |||||||| ||| , ||| |:|||:|:|||||| ' | :|||||:
Db         180 CIHCSAGCGRTGAICAIDYTWNLLRAGKIPEEFNVFNLIQEMRQQRPSAVQIKEQYEFVH 239

Qy         284 NAVLELFKRQM 294
               |: :|||:|:
Db         240 RAIAQLFEKQL 250


RESULT 6
US-09-144-925-20
; Sequence 20, Application US/09144925
; Patent No. 5951979
;  GENERAL INFORMATION:
;  APPLICANT: Tonks, Nicholas
;  APPLICANT: Flint, Andrew J.
;  TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
;  TITLE OF INVENTION: TYROSINE PHOSPHATASES
;  NUMBER OF SEQUENCES: 36
;  CORRESPONDENCE ADDRESS:
;  ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
;  STREET: Two Militia Drive
;  CITY: Lexington
;  STATE: MA
;  COUNTRY: USA
;  ZIP: 02421-4799
;  COMPUTER READABLE FORM:
;  MEDIUM TYPE: Diskette
;  COMPUTER: IBM Compatible
;  OPERATING SYSTEM: Windows 95
;  SOFTWARE: FastSEQ for Windows Version 2.0b
;  CURRENT APPLICATION DATA:
;  APPLICATION NUMBER: US/09/144,925
;  FILING DATE:
;  CLASSIFICATION:
;  PRIOR APPLICATION DATA:
;  APPLICATION NUMBER: 08/685,992
;  FILING DATE: July 25, 1996
;  ATTORNEY/AGENT INFORMATION:
;  NAME: Granahan, Patricia
;  REGISTRATION NUMBER: 32,227
;  REFERENCE/DOCKET NUMBER: OSHL96-03
;  TELECOMMUNICATION INFORMATION:
;  TELEPHONE: 781-861-6240
;  TELEFAX: 781-861-9540
;  TELEX:
;  INFORMATION FOR SEQ ID NO: 20:
;  SEQUENCE CHARACTERISTICS:
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[illegible]

241 NAVLELFKRQM 294

[illegible]

PROTEIN TYROSINE PHOSPHATASE [illegible]

[illegible]

; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-951-260A-7

Query Match 48.3%; Score 755.5; DB 3; Length 453;
Best Local Similarity 48.0%; Pred. No. 2.8e-68;
Matches 141; Conservative [illegible]; Mismatches [illegible]; Indels [illegible]; Gaps [illegible];

Qy [illegible] 61
Db 1 [illegible] 63

Qy 62 [illegible]LLDFWRMIWEYS 121
Db 64 DVVPYDFTRVILSLLQFEGHGDYINANFIRGIDGSQAYIATQGPLPHTLLDFWRLVWEFG 123

Qy 122 V[illegible]VMA[illegible]EVEFNS 180
Db 124 IKVILMACQEIENGRRKCERYWAQEKE-PLQAGPFCITLTKETALTSDITLRTLQVTFQK 182

Qy 181 [illegible]SAGCGRIGVICAI 240
Db 183 ESRPVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAV 242

Qy 241 DYTWMLLKEGIIPENFSVFSLIREMRTQRPSLVQTQEQYELVYNAVLELFKRQM 294
Db 243 DYVRQLLLTQTIPPNFSLFEVVLEMRKQRPAAVQTEEQYRFLYHTVAQLFSRTL 296

RESULT 8
US-08-821-278A-2
; Sequence 2, Application US/08821278A
; Patent No. 6238902
; GENERAL INFORMATION:
; APPLICANT: Cheng, Jill
; APPLICANT: Lasky, Laurence A.
; TITLE OF INVENTION: Protein Tyrosine Phosphatases
; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-2[illegible]
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 2
; LENGTH: 453
; TYPE: PRT
; ORGANISM: Mus Musculus
US-08-821-278A-2

Query Match 47.2%; Score 738.5; DB 4; Length 453;
Best Local Similarity 46.9%; Pred. No. 1.5e-66;
Matches 137; Conservative 58; Mismatches 94; Indels 3; Gaps 3;

Qy 5 [illegible] 63
Db 6 DLVRSPLEQLEARDYRLGAIFVRLFSQTKAEEVAWKSEAVESIKAGE[illegible]NINKNRYKDV 65

Qy 64 LPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVL 123
Db 66 VAYDETRVILSLLQEEGHGNYINANFIRGIDGSQAYIATQGPLPHTLLDFWRLVWEFGVK 125

Qy 124 [illegible] 182
Db 126 V[illegible] 184

Qy 183 RTIYQFHYKNWPDHDVPSSIDPILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDY 242
Db 185 RSVHQLQYMSWPDHGVPSSSDHILTMVEEARCLQGLGPGPLCVHCSAGCGRTGVLCAVDY 244

Qy 243 TWMLLKDGIIPENFSVFSLIREMKTQRPSLVQTQEQYELVYNAVLELFKRQM 294

```
                                                                                
Qy          245 VEGLLLLIIPPNPSLQVVLEMRKQRPAAVQTFFQYFFLYHTVAQEYLEDL 296
                                                                                


RESULT 9
US-08-854-585-2
; Sequence 2, Application US/08854585
; Patent No. 5714419
; GENERAL INFORMATION:
;   APPLICANT:  Tonks, Nicholas K. and  stman, Arne
;   TITLE OF INVENTION:  Density Enhanced Protein Tyrosine Phosphatase
;   NUMBER OF SEQUENCES:  6
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray & Borun
;     STREET:  233 South Wacker Drive, Suite 6300
;     CITY:  Chicago
;     STATE:  Illinois
;     COUNTRY:  United States of America
;     ZIP:  60606
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  08/08/854,585
;     FILING DATE:
;   PRIOR APPLICATION DATA:
;     APPLICATION NUMBER:  US/08/237,940
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Borun, Michael F.
;     REGISTRATION NUMBER:  25,447
;     REFERENCE/DOCKET NUMBER:  27866/31954
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  312-474-6300
;     TELEFAX:  312-474-0448
; INFORMATION FOR SEQ ID NO:  2:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  1337 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  protein
US-08-854-585-2

  Query Match              32.1%;  Score 501.5;  DB 3;  Length 1337;
  Best Local Similarity    38.9%;  Pred. No. 6.9e-42;
  Matches  114;  Conservative   50;  Mismatches  108;  Indels   21;  Gaps    8;

Qy          15 QSKKITKEIPPANPEYLKELFE-ES------KYKADE---IYTFIVAERKRNIKKNKYKDILP 65
               :|| |   :|    | |  :  |      :|:  |    :  :|  ||  :|  |||| ::|
Db        1017 KSKLIPVENPFAAYFKEMDFNAYGSPVAFICAIKVLEESGALFRDHLNNVLP 1070

Qy          66 YDYSRVILKVEDSEENDSYINANFIKGVYGPKAYIATQGPLSTTIEDFWRMIWEYSVLII 125
               || |||:|||: |   |  ||||||: | :  | :.| |||  ||  ||||||| :|  |
Db        1071 YPVFPVELSVQVPSNMSLTYINANYMPGYHSKKDFIATQGPLPNTLEDFWRMVWEKNVYAI 1130

Qy         126 VMATKEVERGKTKCEEYWPSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 183
               :|    | |: |:  ||  |  :  ::|  :|:  :|    :: ||   ||    ||:
Db        1131 IMLTKCVEQGRTKCEEYWPSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 1188

Qy         184 TIYQFHYKNWPDHDVPSSIDPILELIWDVRCY--QEDDSVPICIHCSAGCGRTGVICAID 241
               : |||: ||||| || : | ::    : ||   |     || :|||||  ||||   |||
Db        1189 PLPQFHFTSWPDHGVPEDPISLLRNFRYLVRDYMKQSPPESPILVHCSAGVGRTGTFIAID 1248

Qy         242 YTWMLIKDGIIPEN-FSVFSLIREMRTQRPSLVQTQFQYEIVYNAVLELFKKQ 293
               :::    ||  |: :: ::|  || :| |:::||  :   |||: : |
Db        1249 KILYQIEN--ENIVDVYGILVYDLRMHRPLMVQTEDQYVFLNQCVLDIVRSQ 1302


RESULT 10
US-08-854-585-2
; Sequence 2, Application US/08854585
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; GENERAL INFORMATION:
;   APPLICANT:  Tonks, Nicholas K. and  stman, Arne
;   TITLE OF INVENTION:  Density Enhanced Protein Tyrosine
;   TITLE OF INVENTION:  Phosphatase
;   NUMBER OF SEQUENCES:  6
;   CORRESPONDENCE ADDRESS:
;     ADDRESSEE:  Marshall, O'Toole, Gerstein, Murray &
;     ADDRESSEE:  Borun
;     STREET:  233 South Wacker Drive, Suite 6300
;     CITY:  Chicago
;     STATE:  Illinois
;     COUNTRY:  United States of America
;     ZIP:  60606
;   COMPUTER READABLE FORM:
;     MEDIUM TYPE:  Floppy disk
;     COMPUTER:  IBM PC compatible
;     OPERATING SYSTEM:  PC-DOS/MS-DOS
;     SOFTWARE:  PatentIn Release #1.0, Version #1.25
;   CURRENT APPLICATION DATA:
;     APPLICATION NUMBER:  PCT/US95/05512
;     FILING DATE:
;   ATTORNEY/AGENT INFORMATION:
;     NAME:  Borun, Michael F.
;     REGISTRATION NUMBER:  25,447
;     REFERENCE/DOCKET NUMBER:  27866/31954
;   TELECOMMUNICATION INFORMATION:
;     TELEPHONE:  312-474-6300
;     TELEFAX:  312-474-0448
; INFORMATION FOR SEQ ID NO:  2:
;   SEQUENCE CHARACTERISTICS:
;     LENGTH:  1337 amino acids
;     TYPE:  amino acid
;     TOPOLOGY:  linear
;   MOLECULE TYPE:  protein
PCT-US95-05512-2

  Query Match              32.1%;  Score 501.5;  DB 5;  Length 1337;
  Best Local Similarity    38.9%;  Pred. No. 6.9e-42;
  Matches  114;  Conservative   50;  Mismatches  108;  Indels   21;  Gaps    8;

Qy          15 QSKKITKEIPPANPEYLKELFE-ES------KYKADE---IYTFIVAERKRNIKKNKYKDILP 65
               :|| |   :|    | |  :  |      :|:  |    :  :|  ||  :|  |||| ::|
Db        1017 KSKLIPVENPFAAYFKEMDFNAYGSPVAFICAIKVLEESGALFRDHLNNVLP 1070

Qy          66 YDYSRVILKVEDSEENDSYINANFIKGVYGPKAYIATQGPLSTTIEDFWRMIWEYSVLII 125
               || |||:|||: |   |  ||||||: | :  | :.| |||  ||  ||||||| :|  |
Db        1071 YPVFPVELSVQVPSNMSLTYINANYMPGYHSKKDFIATQGPLPNTLEDFWRMVWEKNVYAI 1130

Qy         126 VMATKEVERGKTKCEEYWPSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 183
               :|    | |: |:  ||  |  :  ::|  :|:  :|    :: ||   ||    ||:
Db        1131 IMLTKCVEQGRTKCEEYWPSKQAQDYGDITVAMTSEIVLPEWTIRDFTVKNIQTSESH 1188

Qy         184 TIYQFHYKNWPDHDVPSSIDPILELIWDVRCY--QEDDSVPICIHCSAGCGRTGVICAID 241
               : |||: ||||| || : | ::    : ||   |     || :|||||  ||||   |||
Db        1189 PLPQFHFTSWPDHGVPEDPISLLRNFRYLVRDYMKQSPPESPILVHCSAGVGRTGTFIAID 1248

Qy         242 YTWMLIKDGIIPEN-FSVFSLIREMRTQRPSLVQTQFQYEIVYNAVLELFKKQ 293
               :::    ||  |: :: ::|  || :| |:::||  :   |||: : |
Db        1249 KILYQIEN--ENIVDVYGILVYDLRMHRPLMVQTEDQYVFLNQCVLDIVRSQ 1302


RESULT 11
US-08-449-644-2
; Sequence 2, Application US/08449644
; Patent No. 5856162
; GENERAL INFORMATION:
;   APPLICANT:  Schlessinger, Joseph
;   APPLICANT:  Sap, Jan M.
;   APPLICANT:  Ullrich, Axel
;   APPLICANT:  Vogel, Wolfgang
;   APPLICANT:  Fuchs, Miriam
;   TITLE OF INVENTION:  NOVEL RECEPTOR-TYPE PHOSPH TYROSINE
;   TITLE OF INVENTION:  PHOSPHATASE-KAPPA
```

; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: FENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/087,244A
; FILING DATE: 01-JUL-1993
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Ostrach, Laura A.
; REGISTRATION NUMBER: 30,742
; REFERENCE/DOCKET NUMBER: 7688.042
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 212-790-9090
; TELEFAX: 212.869.8864/9741
; TELEX: 96141 PENNIE
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1439 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-087-244A-2

Query Match 31.8%; Score 496.5; DB 2; Length 1439;
Best Local Similarity 38.4%; Pred. No. 2.4e-41;
Matches 184; Conservative 94; Mismatches 92; Indels 22; Gaps 6;

Qy 21 PSTPANFLEFPPLTPAAEPAATVALEDPLVPEDPENEYNPQALFKLSSLFTSDEAD 80
Db 936 KEEYELTT EGLGAAW DVAKKDLNPAKNRYGNTIAYLHGRVTLQPVEDDP 986

Qy 81 DSSYINANFIKVVGVKEAYTATQGPLSTTISDFWQMIWEYSVLIVMACMEYEMGKFKCC 140
Db 947 SSDYINANYIDGYQKPNAYIAAQGPVHETVYDFWRMIWQEQGAGIVMVTNLVEVGRVKCY 996

Qy 141 KYWAEEGMQFEDVGLKLTCEDQSKPERRDYGNFTVTTFEIERRGYNEIPEVKQFHFTGWPDHGV 198
Db 997 KYWPDDIEV --YGDFKVTCVEMEPLAEYVVRTFTLERRGYNETREVKQFHFTGWPDHGV 1053

Qy 199 PSSIDPIIELIWDVRCYQESGSVPICIHCSAGCGRTGVICAIDYTW MLLKDGIIPENFS 257
Db 1054 PYHATGLLSFIRRVKLSNPFSAGEIVVHCSAGAGRTGCYIVIDIMLDMAERKGVV - D 1109

Qy 258 VFSLIREMRTQRPSLVQTQEQYELVYNAVLE 288
Db 1110 IYNCVKALRSRRINMVQIEEQYIFIHDALLE 1140

RESULT 13
US-08-685-992-22
; Sequence 22, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA

; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/885,992
; FILING DATE: 25-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: 7SHL96-03
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6210
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 277 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-08-885-992-22

Query Match 41.7%; Score 495; DB 2; Length 277;
Best Local Similarity 37.9%; Pred. No. 3.4e-42;
Matches 106; Conservative 41; Mismatches 91; Indels 42; Gaps 7;

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Db 4 TSEGDKKHNTSKNRYTNILPYNHTRVQLKKIQDKEDSDFYINANYIDGAY-PKQFICTQGP 62

Qy 106 LSTTIIDFWRMIWEYSVLIIVMACMEYEMGKK---KCERYWAEP------GEMQLEF 153
Db 63 LPNTIAEFWEMVWENFSYIVMVSTVEFDMQKQVERYWPDDYEVQFKFTLKDIKEELTWVR 122

Qy 154 YPFSVSCPAEKKKSFYIPTLKVKPNSPTRTIYQFHYKNWPDHDVPSSIDPILELIWDVR 213
Db 123 GTYSVELVEVIQQCREIIPRNIRLTFEGFTRDIIQEYVEGWPDHNIPDDIQPFRQLIRSIT 182

Qy 214 CYQ------EDDSVPICIHCSAGCGRTGV-IA------IEYIWMLLKDGIIP 253
Db 183 NRQNQTIPSSDKNVEIIVHCSAGVGRTGTFIVTAVIMMKELDHVPEKQSVNVAP 235

Qy 254 PNPSVPSQIRFMQTQADSLVQTQFQYFLVYNAVLEFLKR 292
Db 236 DFNFPSIVKFLRPQPDAMVQTAQYEFIYKTIIDEYHR 274

RESULT 14
US-08-144-925-22
; Sequence 22, Application US/08144925
; Patent No. 5695979
; GENERAL INFORMATION:
; APPLICANT: Fowlks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/144,925
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/885,992
; FILING DATE: July 25, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: 7SHL96-03Z
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781-861-6210
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 277 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-144-925-22

Query Match 41.7%; Score 495; DB 4; Length 277;
Best Local Similarity 37.9%; Pred. No. 3.4e-42;
Matches 106; Conservative 41; Mismatches 91; Indels 42; Gaps 7;

Qy 46 IIVAEKPKNIKKNKYKDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGP 105
Db 4 TSEGDKKHNTSKNRYTNILPYNHTRVQLKKIQDKEDSDFYINANYIDGAY-PKQFICTQGP 62

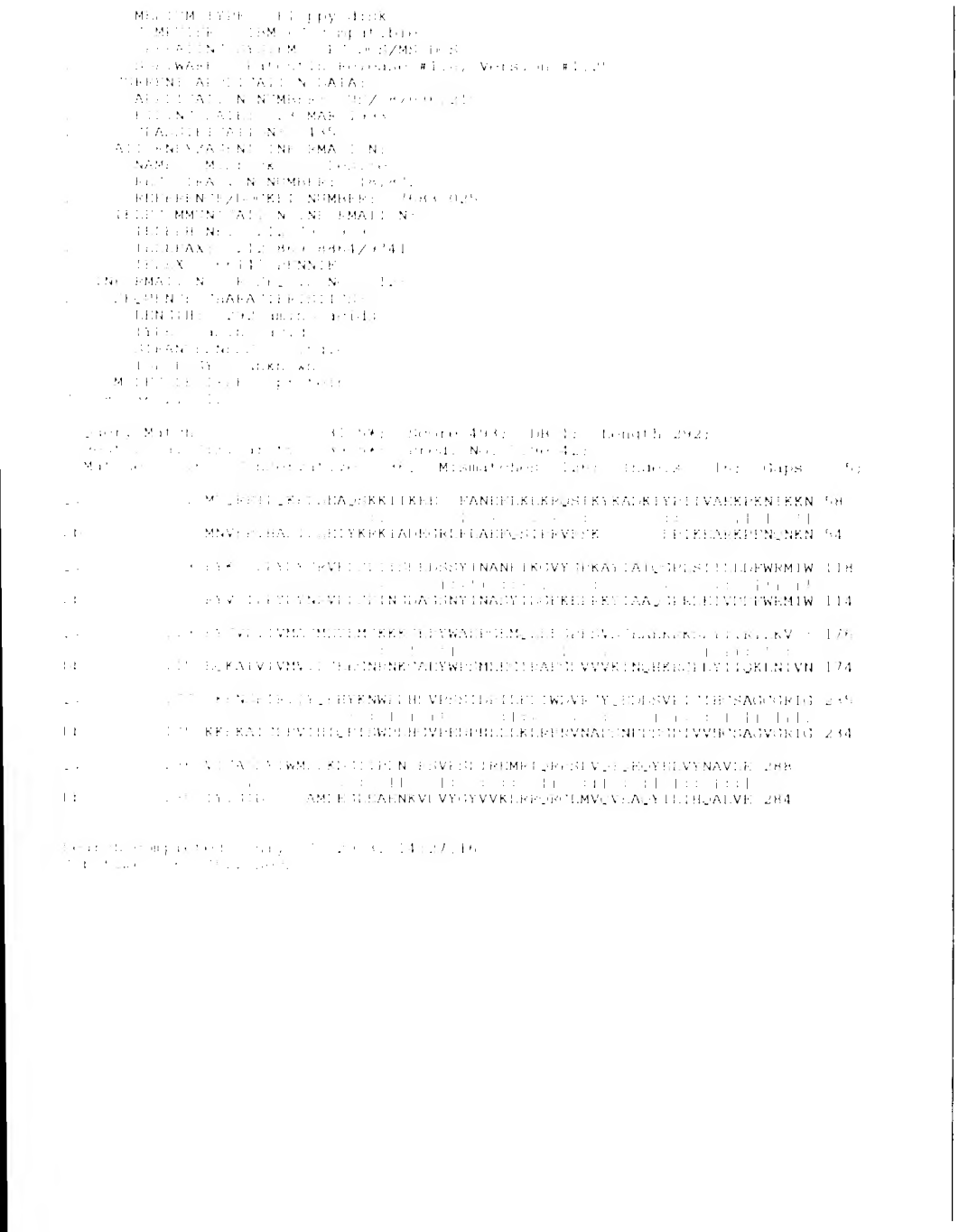
Qy 106 LSTTIIDFWRMIWEYSVLIIVMACMEYEMGKK---KCERYWAEP------GEMQLEF 153
Db 63 LPNTIAEFWEMVWENFSYIVMVSTVEFDMQKQVERYWPDDYEVQFKFTLKDIKEELTWVR 122

Qy 154 YPFSVSCPAEKKKSFYIPTLKVKPNSPTRTIYQFHYKNWPDHDVPSSIDPILELIWDVR 213
Db 123 GTYSVELVEVIQQCREIIPRNIRLTFEGFTRDIIQEYVEGWPDHNIPDDIQPFRQLIRSIT 182

Qy 214 CYQ------EDDSVPICIHCSAGCGRTGV-IA------IEYIWMLLKDGIIP 253
Db 183 NRQNQTIPSSDKNVEIIVHCSAGVGRTGTFIVTAVIMMKELDHVPEKQSVNVAP 235

Qy 254 PNPSVPSQIRFMQTQADSLVQTQFQYFLVYNAVLEFLKR 292
Db 236 DFNFPSIVKFLRPQPDAMVQTAQYEFIYKTIIDEYHR 274

RESULT 15
US-08-036-210-12
; Sequence 12, Application US/08036210
; Patent No. 5585233
; GENERAL INFORMATION:
; APPLICANT: Moller, Niels P.H.
; APPLICANT: Moller, Karin B.
; APPLICANT: Ullrich, Axel
; TITLE OF INVENTION: PTP S1: A NOVEL PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASE
; NUMBER OF SEQUENCES: 45
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036-2711
; COMPUTER READABLE FORM:



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Perfect score: 4230
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 440863 seqs, 144992915 residues

Total number of hits satisfying chosen parameters: 440863

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published_Applications_AA:*
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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	2907.5	68.7	802	10	US-09-822-295-18	Sequence 18, Appl
3	1717	40.6	341	9	US-10-102-505-606	Sequence 606, App
4	948.5	22.4	812	10	US-09-788-626-21	Sequence 21, Appl
5	758.5	17.9	448	9	US-10-087-993-32	Sequence 32, Appl
6	756.5	17.9	453	9	US-10-243-687-7	Sequence 7, Appli
7	737.5	17.4	458	9	US-10-087-993-36	Sequence 36, Appl
8	636.5	15.1	853	9	US-10-072-036-119	Sequence 119, App
9	626.5	14.8	204	9	US-10-245-539-6	Sequence 6, Appli
10	606.5	14.3	595	10	US-09-920-021A-1	Sequence 1, Appli
11	602.5	14.2	843	9	US-10-072-036-117	Sequence 117, App
12	600.5	14.2	1454	9	US-10-176-847-22	Sequence 22, Appl
13	600.5	14.2	1454	9	US-10-205-823-343	Sequence 343, App
14	495	11.7	341	10	US-09-788-626-23	Sequence 23, Appl
15	484.5	11.4	533	10	US-09-920-021A-3	Sequence 3, Appli
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17	481.5	11.4	547	9	US-10-038-010-22	Sequence 22, Appl
18	477	11.3	319	10	US-09-788-626-6	Sequence 6, Appli
19	477	11.3	2358	12	US-10-000-954-2	Sequence 2, Appli
20	475	11.2	305	10	US-09-788-626-9	Sequence 9, Appli
21	474.5	11.2	316	10	US-09-788-626-5	Sequence 5, Appli
22	474.5	11.2	316	10	US-09-788-626-26	Sequence 26, Appl
23	474	11.2	317	10	US-09-788-626-4	Sequence 4, Appli
24	472	11.2	2353	9	US-09-983-000A-4	Sequence 4, Appli
25	470.5	11.1	442	10	US-09-925-380-950	Sequence 950, App
26	470	11.1	1948	9	US-09-808-602-55	Sequence 55, Appl
27	470	11.1	1948	9	US-09-800-198-45	Sequence 45, Appl
28	465.5	11.0	294	10	US-09-788-626-27	Sequence 27, Appl
29	464	11.0	1502	9	US-09-808-602-54	Sequence 54, Appl
30	464	11.0	1502	9	US-09-800-198-44	Sequence 44, Appl
31	462.5	10.9	1093	9	US-10-245-539-4	Sequence 4, Appli
32	462.5	10.9	1118	9	US-10-245-539-2	Sequence 2, Appli
33	462.5	10.9	1118	9	US-10-245-539-8	Sequence 8, Appli
34	461	10.9	248	9	US-10-293-2-1-10	Sequence 10, Appl
35	461	10.9	248	10	US-09-848-294-10	Sequence 10, Appl
36	461	10.9	309	10	US-09-788-626-12	Sequence 12, Appl
37	458	10.8	325	10	US-09-788-626-13	Sequence 13, Appl
38	457.5	10.8	2301	9	US-09-822-871-4	Sequence 4, Appli
39	454.5	10.7	281	10	US-09-788-626-28	Sequence 28, Appl
40	454	10.7	291	10	US-09-788-626-25	Sequence 25, Appl
41	451.5	10.7	2291	9	US-09-822-871-2	Sequence 2, Appli
42	447	10.6	313	10	US-09-788-626-17	Sequence 17, Appl
43	445	10.5	322	10	US-09-788-626-14	Sequence 14, Appl
44	443	10.5	313	10	US-09-788-626-7	Sequence 7, Appli
45	443	10.5	435	10	US-09-986-240-1	Sequence 1, Appli

ALIGNMENTS

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RESULT 1
US-09-822-295-2
; Sequence 2, Application US/09822295
; Patent No. US20020119501A1
; GENERAL INFORMATION:
;      APPLICANT: Bahija Jallal
;                 Gregory D. Plowman
;      TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
;                          PTP04 RELATED DISORDERS
;      NUMBER OF SEQUENCES: 18
;      CORRESPONDENCE ADDRESS:
;           ADDRESSEE: Lyon & Lyon
;           STREET: 633 West Fifth Street
;                   Suite 4700
;           CITY: Los Angeles
;           STATE: California
;           COUNTRY: U.S.A.
;           ZIP: 90071-2066
;      COMPUTER READABLE FORM:
;           MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                        storage
;           COMPUTER: IBM Compatible
;           OPERATING SYSTEM: IBM P.C. DOS 5.0
;           SOFTWARE: FastSEQ for Windows 2.0
;      CURRENT APPLICATION DATA:
;           APPLICATION NUMBER: US/09/822,295
;           FILING DATE: 02-Apr-200
;           CLASSIFICATION: <Unknown>
;      PRIOR APPLICATION DATA:
;           APPLICATION NUMBER: 09/082,545
;           FILING DATE: <Unknown>
;      ATTORNEY/AGENT INFORMATION:
;           NAME: Warburg, Richard J
;           REGISTRATION NUMBER: 32 327
;           REFERENCE/DOCKET NUMBER: 234/253
;      TELECOMMUNICATION INFORMATION:
;           TELEPHONE: (213) 489-1600
;           TELEFAX: (213) 955-0440
;           TELEX: 67-3510
;   INFORMATION FOR SEQ ID NO: 2:
;      SEQUENCE CHARACTERISTICS:
;           LENGTH: 807 amino acids
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; APPLICANT: Rabija Jallal
; Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; PEPO4 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071 2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/822,295
; FILING DATE: 02 Apr 2001
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/081,845
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 42,327
; REFERENCE/DOCKET NUMBER: 194,253
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489 1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 802 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 18:
US 09-822 295-18

Query Match 68.7%; Score 2907.5; DB 10; Length 802;
Best Local Similarity 70.7%; Pred. No. 1.2e-182;
Matches 573; Conservative 76; Mismatches 149; Indels 13; Gaps 6;

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Db 1 MDGRFPLQFFLFEAQSEFCLNEEFAEEFLKLFPQSIEYFAQFTYPFTVAEFPDFNIFFNRY 60

Qy 61 KDILPYDYSRVELSLITSDEDSSYINANFIKGVYGPKAYIATQGPLSTILLDFWRMIWEY 120
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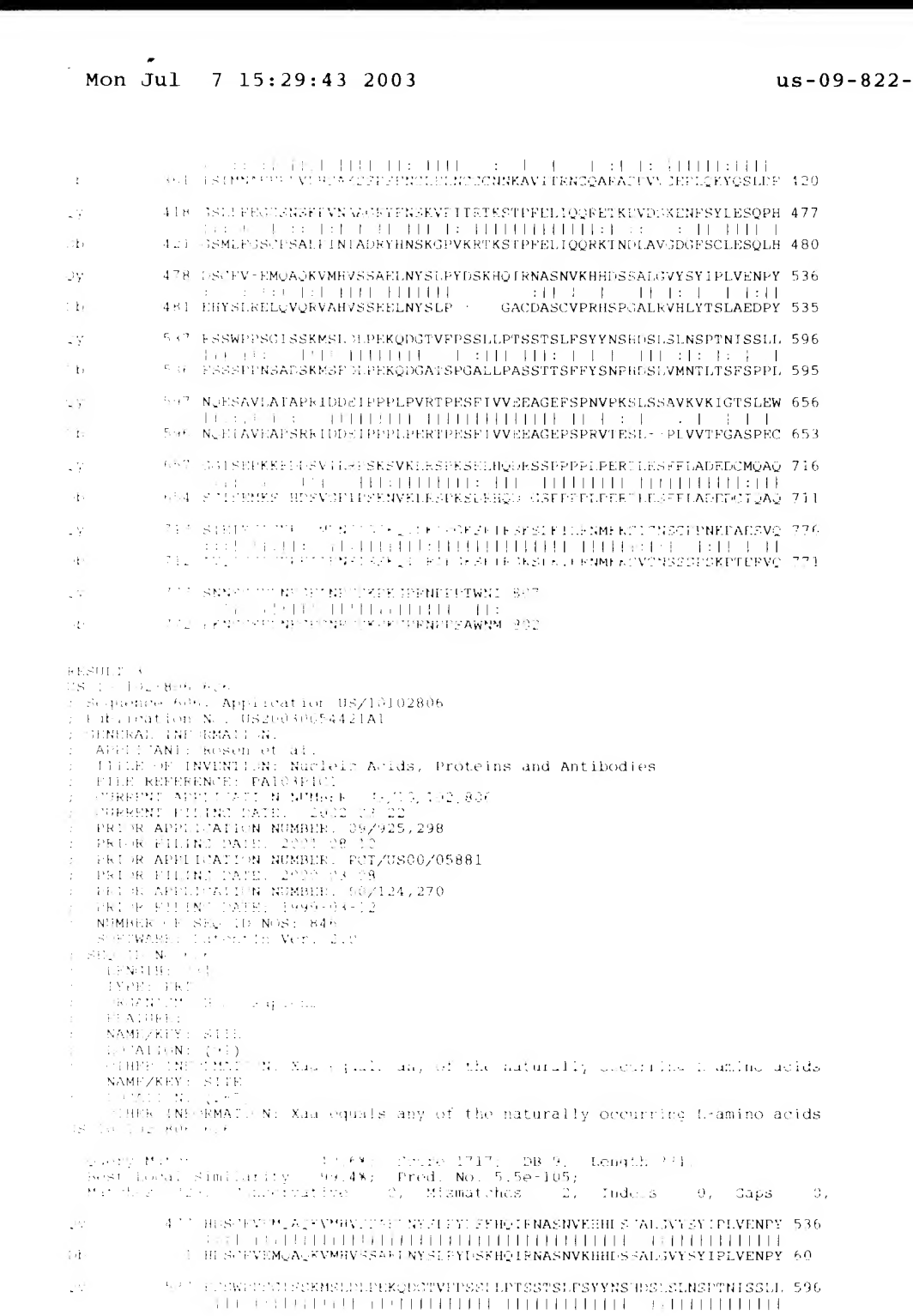

RESULT 4
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; Sequence 21, Application US/09788626
; Patent No. US20020009762A1
; GENERAL INFORMATION:
; APPLICANT: Flint, Andrew J.
; APPLICANT: Gray, Deborah E.
; TITLE OF INVENTION: IMPROVED ASSAY FOR PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASES
; FILE REFERENCE: 200125.401
; CURRENT APPLICATION NUMBER: US/09/788,626
; CURRENT FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-788-626-21

Query Match 22.4%; Score 948.5; DB 10; Length 312;
Best Local Similarity 74.6%; Pred. No. 1.4e-84;
Matches 183; Conservative 47; Mismatches 59; Indels 49; Gaps 5;

Qy 44 YPTTVASKPKNIKKNPYKLILPVTVSFVFLFSLVMFIFIQEVYRNANEFIKSVYPDKAYVIATQ 103
Db 2 YPTATGEKEENVKKNPYKNILPFTDSRVKLTLKETPGLVIVSMNANEFIKSVYSDKAYVATQ 61

Qy 104 CPLSTFLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYWADQGEMQLEFGPFSVSLEAS 163
Db 62 CPLANTVIDFWRMVWLYNVVIIVMATSEFEMGKKKCTEYWPLYGEEPLIFAPFSISLEK 121

Qy 164 KKKSDYIIRTLKVKFNSVTRTIYQFHYKNWPDHGVPSDGEGLLDFIGEVQSKQEQNPLT 223
Db 122 QARTLYPL ILEFPQNLKFFIKELGVKLMWIGEDKTPIEETEFEMYKMVYQDHHDVPTI 179

Qy 224 CTHCSAGCGRTGVICAILVTWMLLRKGIIPENPSVFSLIKEMRTQRPSLVQTQEQYVF 283
Db 180 CTHCSVGCGRTGAICAILTTWMLLPAIPTEQSVNEVSILRSMRTQRPSLVQTQEQYVF 239

Qy 284 NAVLELIKSRDMFVISLFESCSSDGPDITYENLTYPGAGTSVLNPAAK 332
Db 240 RAIAQLPEKQLQ----- ---- ---- YACDYIWNL -LKAGKIPEGTN 272

Qy 339 MMNVQPTVMPIPPSSSPDMKISPISARFEELVL 369
Db 273 VTNLIQEMMPPQ----------EHSAVQIKEQYEL 296

RESULT 5
US-10-087-993-32
; Sequence 32, Application US/10087993
; Patent No. US20020169293A1
; GENERAL INFORMATION:

RESULT 6
US-10-243-687-7
; Sequence 7, Application US/10243687
; Publication No. US20030073120A1
; GENERAL INFORMATION:
; APPLICANT: Aoki, Naohito
; Ullrich, Axel
; TITLE OF INVENTION: PROTEIN TYROSINE PHOSPHATASE PTP20
; AND RELATED PRODUCTS AND METHODS
; NUMBER OF SEQUENCES: 7
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 MB
; storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/243,687
; FILING DATE: 16 Sep 2002
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/430,626A
; FILING DATE: 29 Oct 1999
; APPLICATION NUMBER: 08/951,260
; FILING DATE: October 16, 1997
; APPLICATION NUMBER: 60/030,860
; FILING DATE, No. US20030073120AIember 13, 1996
; APPLICATION NUMBER: PCT/IB97/00946
; FILING DATE: June 17, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 227/304
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 453 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
; SEQUENCE DESCRIPTION: SEQ ID NO: 7:
US-10-243-687-7

Query Match 17.9% Score 258.5; DB 9; Length 453;
Best Local Similarity 43.8% Pred. No. 6.9e-42;

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  Matches  154;  Conservative   60;  Mismatches  116;  Indels   27;  Gaps    6;

Qy          1 QGPFILQPSEIVMAASPEEIERFE-EANFFLKLKRQSIKYKADKIYPLTVAIEQKNIKKNRYK 61
              ::::: ||:: ::: :  | :|  :  :|  :| :           :  | ||||||
Db          4 QSTEVPPSTIPQLPAPDVDKPATLAPIEPSPIPAPSVAWKTEGVQSTPAVSQQGNSKENSYK 63

Qy         62 DILPYDYSRVELSLITSPEDSSYINANFIKGVYGPKAYIATQGPLSTILLDFWRMIWEYS 121
              :::::| ::: ||:  :   |||||||:  : :||||||||   |:|||||::||:
Db         64 DVVPYIPIRVILSLLQEEGHGDYINANFIRGTDGSQAYIATQGPLPHTILDFWRLVWEFG 123

Qy        122 VLIIVMACTEYEMGKRKCERYWAEKPFNCMQLEFKDFSVSCEAEKRKSDYIIRTLKVEFNS 180
              :::: ||   | |: |||:|||:  :  |: ||| ::   :    ||  :||||:| |
Db        124 IFVPLMAVSPVPIYMVPYFWWAVFGAIFFILIKETALICVPTLRTLQVIFQK 182

Qy        181 EIRTCYGLEHYKKNWPDQVKIDIPFTIPLIWDVFGYGEDESVFIGHCFAGCGRTGVICAI 240
              ::  :: :  :|||  |||| | || ::  : || |     |:|:  |||||||||:||:
Db        183 ESRPVHGLQVMPWPDHGVPDSSDPIIPMVFFAAFIGGIGFTGVIGAV 232

Qy        241 PTTDMCLKYIEREQTVDVYGHVTCMRSQRNYMVQTEDQYVFIYEALVEAAVLEGLAEFDGE 300
              ::  :: :  :| | ||:: :: ||| ||| :|||:||  :|:  :  :|| | :
Db        233 DYVKGILIFIGLIPPNFSIFFVVIFMRKQRPAAVQIFPQYPFLYHIVAQIFSPILQNNSPL 292

Qy        301 ------VIRDKHSGIFSQAKHCIPEKNHIIQADSYS------PNLPKSTTKA 335
                   :: |  | | |  :|  :  |  |       | | : | |
Db        293 YGNLKENRAIGKGGSIKTSSA  IIATSRFIGGVLKSISVPGPFILPMADTYA 355


RESULT 7
US-10-087-993-36
; Sequence 36, Application US/10087993
; Patent No. US20020169303A1
; GENERAL INFORMATION:
;      APPLICANT: Ullrich, Axel
;                 Aoki, Naohito
;                 Kim, Yeong Woong
;                 Wang, Hong Yang
;                 Chen, Zhengjun
;                 Naylor, Oliver
;                 Kharitonenkov, Alexei Igorevich
;      TITLE OF INVENTION: NOVEL PTP2C, PCP 2, BPP1, CIR
;                          AND SIRP POLYPEPTIDES AND RELATED
;                          PRODUCTS AND METHODS
;      NUMBER OF SEQUENCES: 38
;      CORRESPONDENCE ADDRESS:
;           ADDRESSEE: Lyon & Lyon
;           STREET: 633 West Fifth Street
;                   Suite 4700
;           CITY: Los Angeles
;           STATE: California
;           COUNTRY: U.S.A.
;           ZIP: 90071-2066
;      COMPUTER READABLE FORM:
;           MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
;                        storage
;           COMPUTER: IBM Compatible
;           OPERATING SYSTEM: IBM P.C. DOS 5.0
;           SOFTWARE: FastSEQ for Windows 2.0
;      CURRENT APPLICATION DATA:
;           APPLICATION NUMBER: US/10/087,993
;           FILING DATE: 05-Mar-2002
;           CLASSIFICATION: 435
;      PRIOR APPLICATION DATA:
;           APPLICATION NUMBER: US/08/877,50
;           FILING DATE: June 17, 1997
;           APPLICATION NUMBER: U.S. 60/019,629
;           FILING DATE: June 17, 1996
;           APPLICATION NUMBER: U.S. 60/023,485
;           FILING DATE: August 9, 1996
;           APPLICATION NUMBER: U.S. 60/030,860
;           FILING DATE: No. US20020169303Alember 13, 1996
;           APPLICATION NUMBER: U.S. 60/034,286
;           FILING DATE: December 19, 1996
;           APPLICATION NUMBER: U.S. 60/030,964
;           FILING DATE: No. US20020169303Alember 15, 1996
;      ATTORNEY/AGENT INFORMATION:
;           NAME: Warburg, Richard J.
;           REGISTRATION NUMBER: 32,327
;           REFERENCE/DOCKET NUMBER: 227/298
;      TELECOMMUNICATION INFORMATION:
;           TELEPHONE: (213) 489-1600
;           TELEFAX: (213) 955-0440
;           TELEX: 67-3510
;    INFORMATION FOR SEQ ID NO: 36:
;      SEQUENCE CHARACTERISTICS:
;           LENGTH: 458 amino acids
;           TYPE: amino acid
;           STRANDEDNESS: single
;           TOPOLOGY: linear
;      MOLECULE TYPE: peptide
;      SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-10-087-993-36

  Query Match             17.2%;  Score 727.5;  DB 4;  Length 458;
  Best Local Similarity   46.9%;  Pred. No. 7.6e-40;
  Matches  136;  Conservative   56;  Mismatches   93;  Indels    5;  Gaps    3;

Qy         25 ANEPLKLKPQSIEVKAKETYEITVAIEQKNIKKNRYKDILPYDYSRVELSLITSDEDSSY 84
              | ||  ::  |  :|||    |    :::|:::||||:|:|||| :||  ||:  _  | |
Db         27 ACEPSDIQACSAAWKADGVCSIVACDSKIENVRKNDYRDVLPYIQFTRVILVPLLSEDHDVY 86

Qy         85 INANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACTEYEMGKRKCERYWA 144
              || |||:|| |  ||||||| |||:|||::|: | :|:|| | |:|: ||||
Db         87 INGNFIPGVDGSLAYIATQGPLPHTLLDFWRLVWEQNVYVIVMATKEVEMGKVKCEQYWA 146

Qy        145 EKQFEMQLEFKDFSVSCEAEKRKSDYIIRTLKVEFNSEIRTCYGLEHYKKNWPDQVKIDIP 204
              :  |  |: | | ::   |:    | :::|:|| |  :|:::||  | :|||   ||| |
Db        147 QEQPKPIQIGLECTIIKERWLNKDIMLPILEVIPQKPSPSVYQLQYMSWPDHGVPDSSPD 205

Qy        205 FTIPLIWDVPGYQEDESVPIGTHCSAGCGRTGVICAIDYTWMIEKDGIIPENFSVPSLIE 264
              :|  :: : |  |     |:|:|||||||||||:|:: :||   ||   :: |:|:| ::
Db        206 HMIAMVEEARELQGSGEPPLCVHCSAGCGRTGVICIVDYVRQLIIQMIRPDNSLEDVVL 265

Qy        265 EMRKQRPAAVQTFEQYKFIYHTVAQMF   SPTLSKSTTKAENKENSAP 312
              :|| ||| |||:|||  :|: | :|:|      :::      :: :|| |
Db        266 KMRKQRPAAVQTFEQYKFIYHTVAQMF   SPTLSKSTTKAENKENSAP 312


RESULT 8
US-10-072-036-119
; Sequence 119, Application US/10072036
; Publication No. US20030082564A1
; GENERAL INFORMATION:
;  APPLICANT: Ole THASTRUP
;  APPLICANT:  Sara BJRON
;  APPLICANT:  Soren TULLIN
;  APPLICANT:  Kasper ALMHOLT
;  APPLICANT:  Kurt SCUDDER
;  TITLE OF INVENTION: A Method For Extracting Quantitative Information Relating to A
;  TITLE OF INVENTION:  On A Cellular Response
;  FILE REFERENCE: 3759-0120P
;  CURRENT APPLICATION NUMBER: US/10/072,036
;  CURRENT FILING DATE:  2002-09-13
;  PRIOR APPLICATION NUMBER: 09/417,197
;  PRIOR FILING DATE: 1999-10-07
;  NUMBER OF SEQ ID NOS: 143
;  SOFTWARE: Patentin version 3.0
; SEQ ID NO 119
;   LENGTH: 853
;   TYPE: PRT
;   ORGANISM: Artificial Sequence
;   FEATURE:
;   OTHER INFORMATION: PIP-PDPP fusion
US-10-072-036-119

  Query Match             12.4%;  Score 526.5;  DB 9;  Length 853;
  Best Local Similarity   27.1%;  Pred. No. 2.9e-26;
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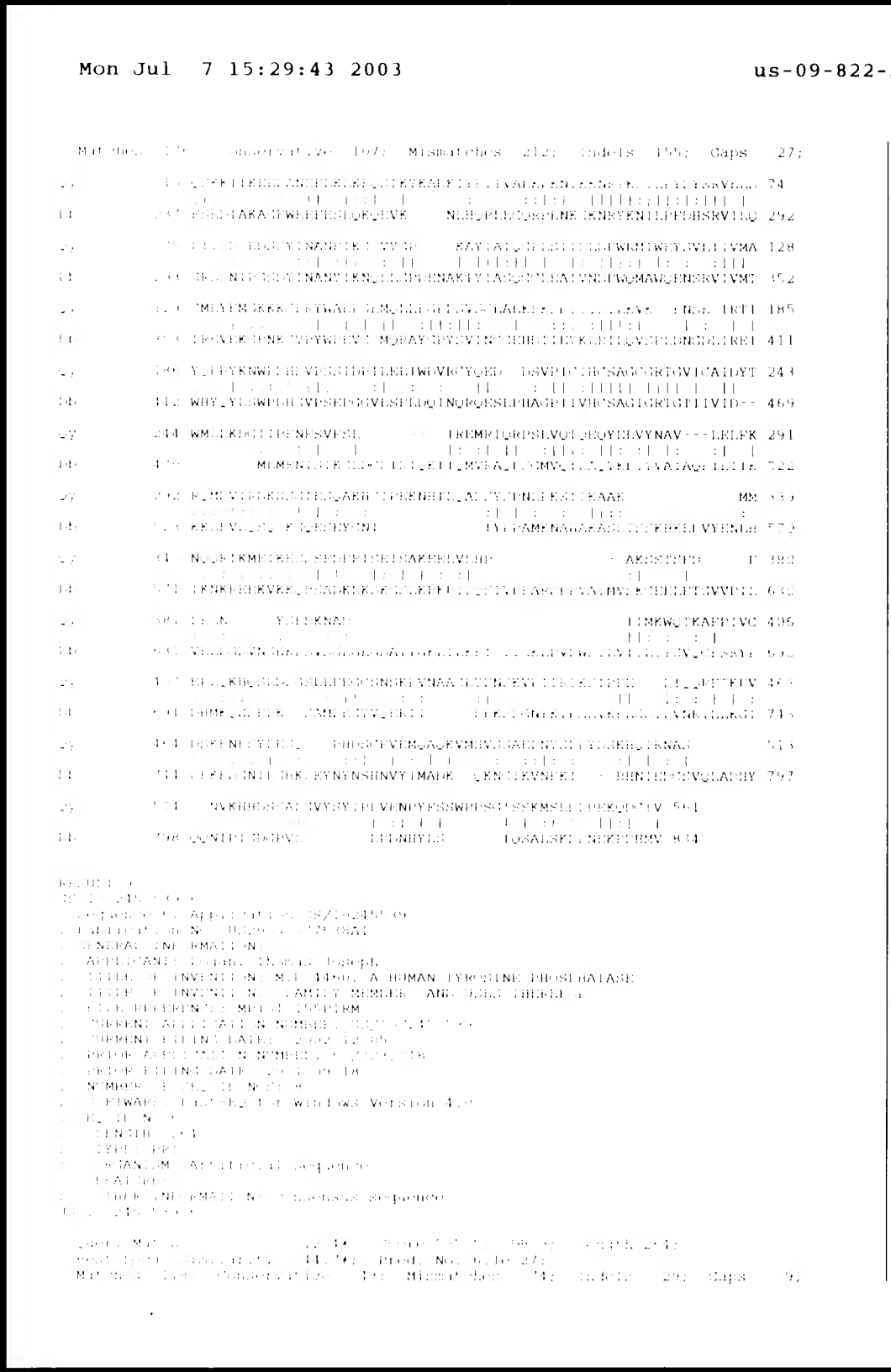


RESULT 10
US-09-920-021A-1
; Sequence 1, Application US/09920021A
; Patent No. US20020110800A1
; GENERAL INFORMATION:
; APPLICANT: KAPLAN, DAVID
; APPLICANT: MARCH, H. NICK
; TITLE OF INVENTION: USE OF SHP-1 AND SHP-2 TO DETECT
; TITLE OF INVENTION: COMPOUNDS INVOLVED IN NEURONAL SURVIVAL
; FILE REFERENCE: 08338/016001
; CURRENT APPLICATION NUMBER: US/09/920,021A
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: 60/056,157
; PRIOR FILING DATE: 1997-08-29
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 595
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-920-021A-1

Query Match 11.9%; Score 502.5; DB 10; Length 595;
Best Local Similarity 33.6%; Pred. No. 6.5e-25;
Matches 130; Conservative 70; Mismatches 126; Indels 61; Gaps 14;

Qy 15 ... 74
Db 235 ... 290

Qy 75 LITSD EDSSYINANFIEG VYQP KAYIATQGPLSTTLIDFWRMIWEYSVLIIVMA 128
Db 291 ... 350

Qy 129 ... 185
Db 351 ... 409

Qy 186 YQPHYKNWPDHDVPSSIDFILELIWDVRCYQED DSVPICIHCSAGCGRTGVICAIDYI 243
Db 410 ... 467

Qy 244 WMLLKDGIIPENFSVFSL--- -----IPEMRTQPPSLVQTQEQYELVYNAV LELFK 291
Db 468 ... 520

Qy 292 ... 339
Db 521 ... 568

Qy 340 ... 366

; FILE REFERENCE: MRI-039
; CURRENT APPLICATION NUMBER: US/10/176,847
; CURRENT FILING DATE: 2002-06-21
; NUMBER OF SEQ ID NOS: 112
; SOFTWARE: PastSEQ for Windows Version 4.0
; SEQ ID NO 22
; LENGTH: 1463
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-176-847-22

Query Match 11.8%; Score 500.5; DB 9; Length 1463;
Best Local Similarity 40.7%; Pred. No. 3.8e-24;
Matches 105; Conservative 49; Mismatches 91; Indels 13; Gaps 5;

Qy 27 EVEA DRTVTTIVAPEPPNIPELVEFVVDKDDPAVHEWVKLMEKKAGPDVSTPKDHAMEFKDLDPERIKPLETY 97
Db 914 EYEAIPPQQTASWPTAKTLPDSSNSTGNTTSSHRVPSLLAVGANEHATSFPMSESRGVVSDPFTLPSNAAYIMSY 993

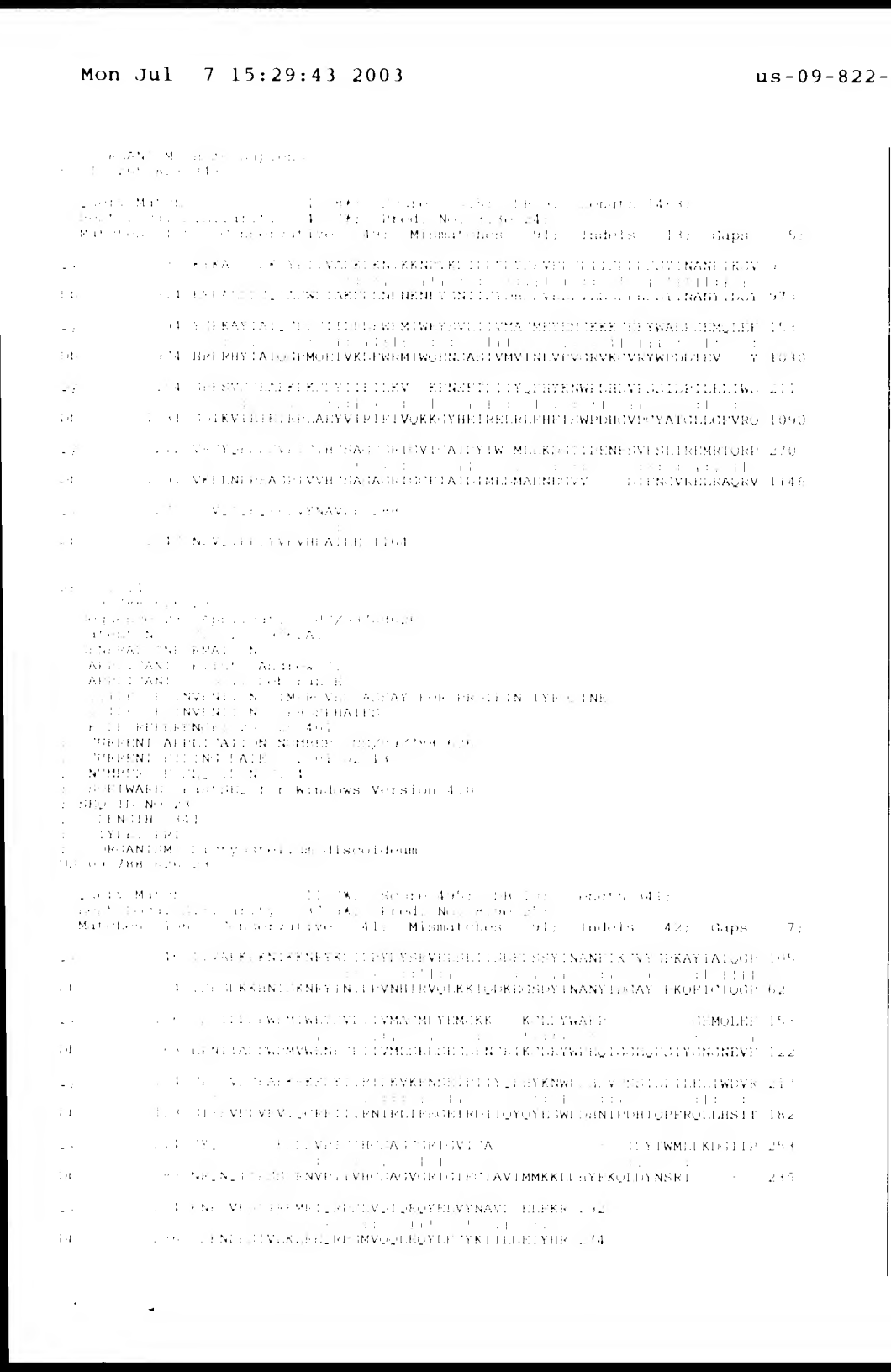
Qy 98 YGPKAIIATQGILSTTLLLFWRKTMETSVLLIVMACVFIFMGEFFGYWAPFVPMQLEF 153
Db 994 HRPRHYIATQGPMQETVKDFWRMIWQENSASIVMVTNLVEVGRVKCVRYWPDDTEV---Y 1050

Qy 154 CPFSVSCLAEKEKSEYTIRTLEV--EFNSETERTVSERNWPEHEVPSKIDFILEIIWD 211
Db 1051 GDIKVTLIETEPLAEYVIRTFFVQKKGYHEIREFKLFHFTSWPDHGVPEYATGLLGFVRQ 1110

Qy 212 VRQYQEDDSVGTGTHRSACQGRTGVICAIDYTW MILKRGIIIPENFSVPSLIREMRIQRP 270
Db 1091 VKFLNPPEAGPIVVHCSAGAGRTGTFIAIDIMLDMAENEGVV- -DIFNCVRELRAQRV 1146

Qy 271 SLVQTQEQYEFLVYNAVLE 288
Db 1147 NLVQTEEQYVFVHDAILE 1164

RESULT 13
US-10-205-823-343
; Sequence 343, Application US/10205823
; Publication No. US20030108963A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Monahan, John E.
; APPLICANT: Endege, Wilson O.
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Corbatcheva, Bella
; APPLICANT: Boersch, Sebastian
; APPLICANT: Kamatkar, Shubhanui
; APPLICANT: Wonsey, Angela M.
; APPLICANT: Glatt, Karen
; APPLICANT: Zhao, Xumei
; APPLICANT: Anderson, Dustin
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND
; TITLE OF INVENTION: METHODS FOR DIAGNOSIS OF PROSTATE CANCER
; TITLE OF INVENTION: THERAPY OF PROSTATE CANCER
; FILE REFERENCE: MRI-044
; CURRENT APPLICATION NUMBER: US/10/205,823
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: 60/307,982
; PRIOR FILING DATE: 2001-07-25
; PRIOR APPLICATION NUMBER: 60/314,456
; PRIOR FILING DATE: 2001-08-22
; PRIOR APPLICATION NUMBER: 60/325,020
; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: 60/341,746
; PRIOR FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: 60/362,258
; PRIOR FILING DATE: 2002-03-05
; NUMBER OF SEQ ID NOS: 455
; SOFTWARE: PastSEQ for Windows Version 4.0
; SEQ ID NO 343
; LENGTH: 1463
; TYPE: PRT



RESULT 15
US 09-920-021A-3
; Sequence 3, Application US/09920021A
; Patent No. US20020110800A1
; GENERAL INFORMATION:
; APPLICANT: KAPLAN, DAVID
; APPLICANT: MARSH, H. NICK
; TITLE OF INVENTION: COMPOSITIONS INVOLVED IN NEURONAL SURVIVAL
; FILE REFERENCE: 06556/016001
; CURRENT APPLICATION NUMBER: US/09/920,021A
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US/08/918,157
; PRIOR FILING DATE: 1997-08-25
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 593
; TYPE: PRT
; ORGANISM: Homo Sapiens
US 09-920-021A-3

Query Match 11.4%; Score 483.5; DB 10; Length 593;
Best Local Similarity 34.7%; Pred. No. 1.1e-23;
Matches 118; Conservative 50; Mismatches 112; Indels 51; Gaps 11;

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CenCore version 5.1.6

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(without alignments)
1551.569 Million cell updates/sec

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Perfect score: 4230
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Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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SUMMARIES

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1	4230	100.0	807	4	US-09-081-345-2	Sequence 2, Appli
2	2987.5	98.7	802	4	US-09-081-345-18	Sequence 18, Appl
3	1305	42.3	278	4	US-08-821-278A-18	Sequence 18, Appl
4	1284	44.2	272	4	US-08-821-278A-19	Sequence 19, Appl
5	944	22.3	253	2	US-08-685-992-20	Sequence 20, Appl
6	944	22.3	253	2	US-09-144-925-20	Sequence 20, Appl
7	708.5	16.8	453	3	US-08-951-200A-7	Sequence 7, Appli
8	744	17.6	453	4	US-08-821-278A-2	Sequence 2, Appli
9	536.5	12.7	1447	3	US-08-854-585-2	Sequence 2, Appli
10	500.5	11.8	1447	5	PCT-US95-05512-2	Sequence 2, Appli
11	504.5	11.9	569	1	US-08-202-389-6	Sequence 6, Appli
12	502	11.9	1449	2	US-08-449-644-2	Sequence 2, Appli
13	502	11.9	1449	2	US-09-087-244A-2	Sequence 2, Appli
14	501.5	11.9	684	1	US-08-202-389-8	Sequence 8, Appli
15	498	11.7	593	1	US-08-018-129-5	Sequence 5, Appli
16	498	11.7	593	2	US-08-448-250-5	Sequence 5, Appli
17	496.5	11.7	1442	1	US-08-015-986A-3	Sequence 3, Appli
18	496.5	11.7	1442	2	US-08-446-363-3	Sequence 3, Appli
19	495	11.7	277	2	US-08-685-992-22	Sequence 22, Appl
20	495	11.7	277	2	US-09-144-925-22	Sequence 22, Appl
21	494	11.7	292	3	US-08-036-210-12	Sequence 12, Appl
22	494	11.7	292	2	US-08-449-609-12	Sequence 12, Appl
23	488.5	11.5	1452	2	US-08-652-971-4	Sequence 4, Appli
24	488.5	11.5	1452	2	US-08-991-258A-4	Sequence 4, Appli
25	488.5	11.5	1452	2	US-08-769-399-4	Sequence 4, Appli
26	488.5	11.5	1452	3	US-08-991-953A-4	Sequence 4, Appli
27	488	11.5	1457	2	US-08-652-971-3	Sequence 3, Appli
28	488	11.5	1457	2	US-08-449-644-1	Sequence 1, Appli
29	488	11.5	1457	2	US-08-087-244A-1	Sequence 1, Appli
30	488	11.5	1457	2	US-09-991-258A-3	Sequence 3, Appli
31	488	11.5	1457	2	US-08-769-399-3	Sequence 3, Appli
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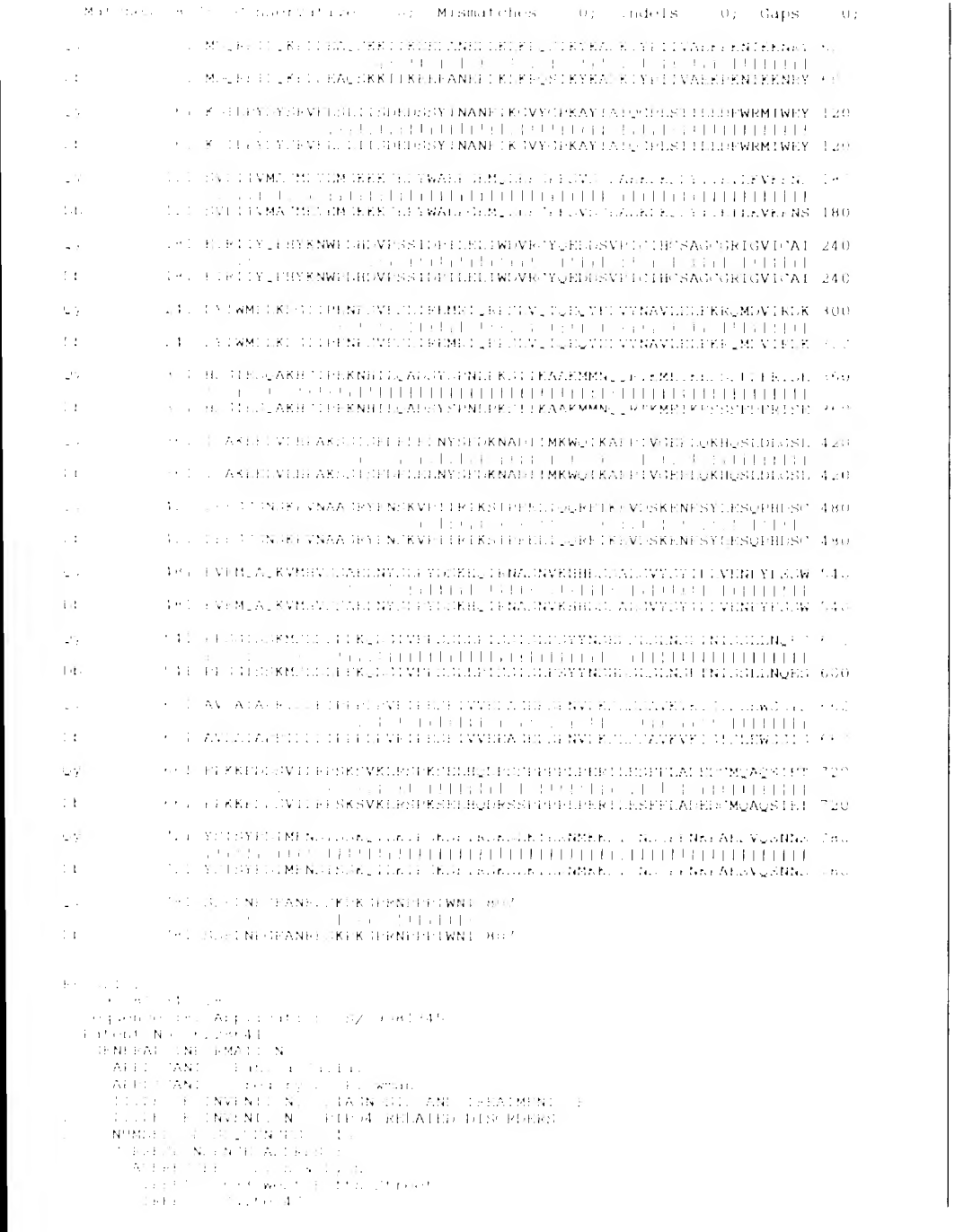
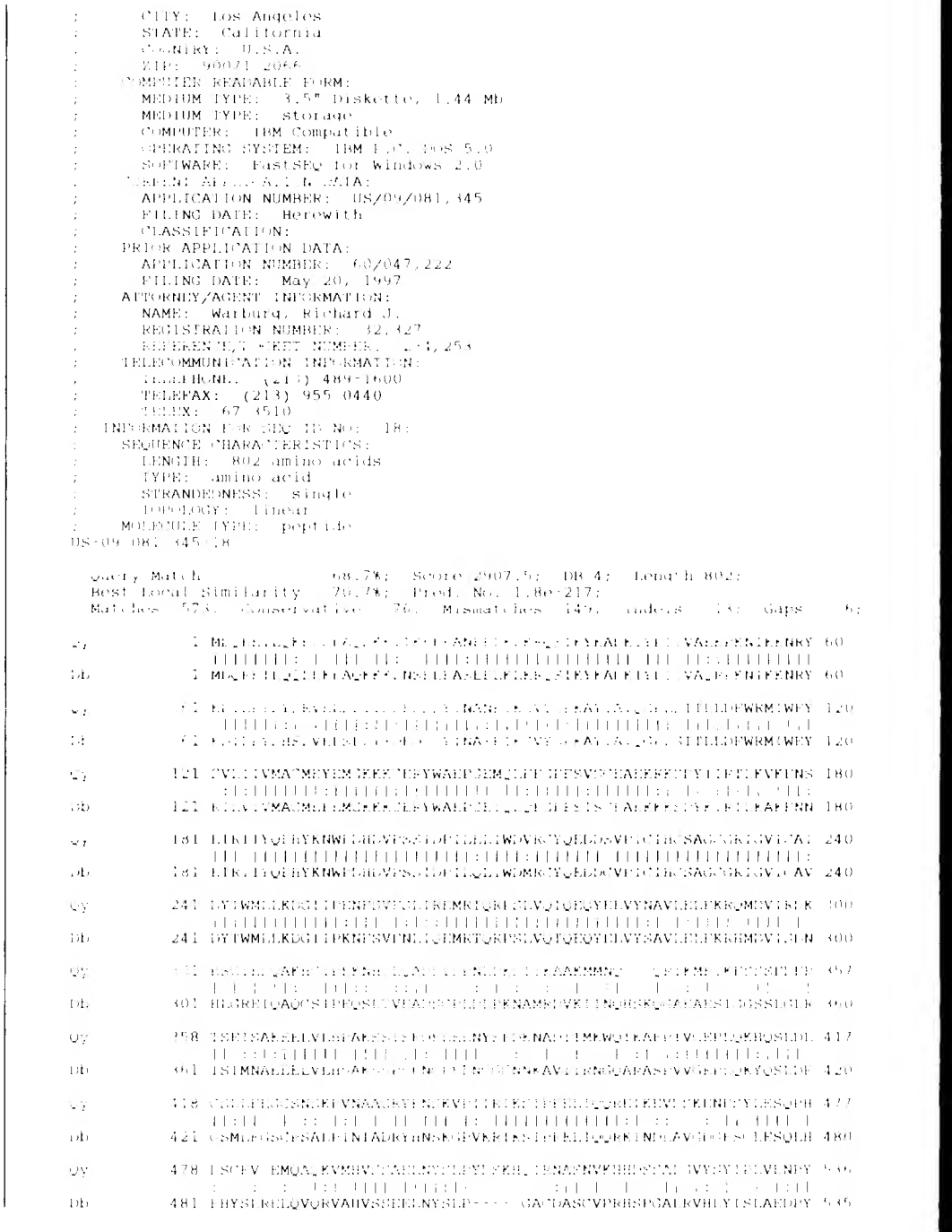
34	486.5	11.5	1445	2	US-08-446-363-2	Sequence 2, Appli
35	486.5	11.5	1452	2	US-08-449-644-8	Sequence 8, Appli
36	486.5	11.5	1452	2	US-08-087-244A-8	Sequence 8, Appli
37	485	11.5	1237	1	US-08-202-389-12	Sequence 12, Appl
38	485	11.5	1237	2	US-08-850-917-2	Sequence 2, Appli
39	483.5	11.4	593	1	US-08-202-389-12	Sequence 12, Appl
40	483.5	11.4	2314	4	US-09-816-708A-2	Sequence 2, Appli
41	477	11.3	2308	1	US-08-015-973-1	Sequence 1, Appli
42	477	11.3	2308	2	US-08-448-164-1	Sequence 1, Appli
43	477	11.3	2308	4	US-08-081-929-2	Sequence 2, Appli
44	475	11.2	249	2	US-08-085-992-8	Sequence 8, Appli
45	475	11.2	249	2	US-09-141-925-9	Sequence 9, Appli

ALIGNMENTS

RESULT 1
US-09-081-345-2
; Sequence 2, Application US/09081345
; Patent No. 6228641
; GENERAL INFORMATION:
; APPLICANT: Bahija Jallal
; APPLICANT: Gregory D. Plowman
; TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF
; TITLE OF INVENTION: PTP94 RELATED DISORDERS
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; STREET: Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; MEDIUM TYPE: storage
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: FastSEQ for Windows 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/081,345
; FILING DATE: Herewith
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 60/047,222
; FILING DATE: May 20, 1997
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 224/[illegible]
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 807 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: peptide
US-09-081-345-2

Query Match 100.0%; Score 4230; DB 4; Length 807;
Best Local Similarity; 100.0%; Pred. No. 0;





; FILE REFERENCE: P1010R1
; CURRENT APPLICATION NUMBER: US/08/821,278A
; CURRENT FILING DATE: 1997-03-20
; NUMBER OF SEQ ID NOS: 23
; SEQ ID NO 19
; LENGTH: 272
; TYPE: PRT
; ORGANISM: Homo Sapien
US-08-821-278A-19

Query Match 24.2%; Score 1024; DB 4; Length 272;
Best Local Similarity 66.4%; Pred. No. 7.9e-72;
Matches 180; Conservative 46; Mismatches 45; Indels 0; Gaps 0;

Qy 24 PANEPEKEKEQSIKYKPADKTYPTIVAPKPKNIKKNRYKDILPYDYSRVELSEITSDEDSS 83
Db 1 PARDEMRLPPRLSTKYPTFKIVPTAIPFKEPNVPKPNRYKDILPFDHSRVKLTQKTDSQDSD 60

Qy 84 YINANFIKGVYGPKAYIATQGPLSTTLLDFWRMIWEYSVLIIVMACMEYEMGKKKCERYW 143
Db 61 YINANFIKGVYGPKAYVATQGPLANTVIDFWRMVWLYNVVIIVMACTEFEMDKKKCERYW 120

Qy 144 AEPGEMQLEFGPFSVSCEAEKRSDYIIRTLKVKFNSETRTIYQFHYKNWPDHDVPSSID 203
Db 121 PLYGEDFITTAPFKISCEDQAKIGYFIETLKEFMETRPLQNFRVDQFHYVSWPDHGVPESPD 180

Qy 204 PILELIWDVRCYQESDSVPICIHCSAGCGRTGVICAIDYIWMLLKDGIIPENFSVFSLIR 263
Db 181 SILDMISLMRKYQEHEDVPICIHCSAGCGRTGAICAIDYTWNLLKAGKIPEEFNVFNLIQ 240

Qy 264 EMRTQRPSLVQTQFQYFLVYNAVLEFLFKRQMDVIRDKH 301
Db 241 EMRTQPHSAVQTKEQYFLVHRATAQFFPKGL 272

RESULT 5
US-08-685-992-20
; Sequence 20, Application US/08685992
; Patent No. 5912138
; GENERAL INFORMATION:
; APPLICANT: Tonks, Nicholas
; APPLICANT: Flint, Andrew J.
; TITLE OF INVENTION: SUBSTRATE TRAPPING PROTEIN
; TITLE OF INVENTION: TYROSINE PHOSPHATASES
; NUMBER OF SEQUENCES: 36
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: HAMILTON, BROOK, SMITH & REYNOLDS, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSEQ for Windows Version 2.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/685,992
; FILING DATE: 25-JUL-1996
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: CSHL98-503
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 781 861 6240
; TELEFAX: 781-861-9540
; TELEX:
; INFORMATION FOR SEQ ID NO: 20:

SEQUENCE CHARACTERISTICS:
LENGTH: 453 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: peptide
US-08-454-595-2A

Query Match 17.7%; Score 758.5; DB 3; Length 453;
Best Local Similarity 43.0%; Pred. No. 7.4e-51;
Matches 154; Conservative 60; Mismatches 116; Indels 27; Gaps 6;

Qy 3 QRETLQEFEHMAQSPFIFEEE FANEFIELEPKYEKYKADKIYPFTVAERKQKNIKKNRYK 61
Db 1 QSDLVRSFLEQQEARDHRELNHRAPFSDIFARPSVAWKTFGVCSTKAQSQQGNSKKNRYK 60

Qy 62 DILPYDYSRVELSEITEGGRSGYINANFIKGVYGPKAYIATQGPLPETIGDFWRMIWEYS 121
Db 61 DVVPYDHSRVILSLLQEEGGHGDYINANFIRGTIGSQAYIATQGPLPHTILDFWRLVWEFG 120

Qy 122 VLIIVMACMETEMGKEKCLRYWAEIGEMQLIEGFEVSCEALKK KSGEIKELKNVKFNS 180
Db 121 IKVIVMATQEVERGRNKCKPYWAQPRE-EEQAIPFKIVEKEPTAESVALRPLQVTFQGK 179

Qy 181 EISITYQLTHFEWPDHGVPSSTDGILSLIWLVRCYQEDDSVPICIHCSAGCGRTGVICAT 240
Db 180 PGVPVHCSAGVGRTGVFCAV 199

Qy 241 DYTWMLEKDIIPENFSVFSLIREMRTQRPSLVQTQPQYEFVYNAVLELFKPQMD----- 295
Db 200 DYVKSIITTQTPPENPSLFYVVLEMPSKGEAAVQTEEQYEELYHIVAQLFSRTLQNNSEL 302

Qy 296 ---VIPEPEHQIPPSQAPHPTEEKHHTQALSYS---- TNGNTSIPA 335
Db 303 YQNIKPNRAFLGKEASSCSISSA LPATSRPLDGVLESISVFQTPILPVADPTA 355

RESULT 8
US-08-821-278A-2
Sequence 2, Application US/08821278A
Patent No. 6207432
GENERAL INFORMATION:
APPLICANT: Tonks, Nicholas K.
APPLICANT: Zanke, Lawrence A.
TITLE OF INVENTION: Protein Tyrosine Phosphatases
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/821,278A
FILING DATE: 1997-03-20
NUMBER OF SEQ ID NOS: 2
SEQ ID NO 2
LENGTH: 355
TYPE: PRT
ORGANISM: Mus musculus
US-08-821-278A-2

Query Match 17.7%; Score 746; DB 4; Length 453;
Best Local Similarity 41.9%; Pred. No. 1.9e-50;
Matches 153; Conservative 67; Mismatches 108; Indels 8; Gaps 5;

Qy 5 RETLQEFEHMAQSPFIFEEEFANEFIELEPKYEKYKADKIYPFTVAERKQKNIKKNRYKDI 64
Db 1 MSVRSFLEQLEARDYRELNHRAPFSDIFARPSVAWKSEGVCSIKAQSPLQNTNKNRYKDV 60

Qy 65 LPYDYSRVELSEITEGGRSGYINANFIKGVYGPKAYIATQGPLSETIGDFWRMIWEYSVL 124
Db 61 VPYDHSRVILQLLEEQGQERSDYINASFIDGYNQPRAYIAAQGPLPETFGDFWQMVWEQKV 120

Qy 125 IIVMACMETEMGKEKCERYWAEIGEMQLIEGFEVSCEALKKKSGEIKELKNVKFNSEI 184
Db 121 TVIVMATKEVERGRVKCHQYWPDEGAMTYGDVTVELKKEAECESVVVRDFKVENSRT 180

Qy 185 SITYQLTHFEWPDHGVPSSTDGILSLIWLVRCYQEDDSVPICIHCSAGCGRTGVICATDY 244
Db 181 RSVHQIQYMSWPDHGVPSSSDHILTMVFFAACIQQQQGPLCVHCSAGCGRTGVLCAVDY 240

Qy 245 TWMLLKDCIIPENFSVFSLIREMRTQRPSLVQTQPQYEFVYNAVLELFKPQMD----- 295
Db 241 VRQLIKKDKTNPLHFSKIRNQRVMLIQVEQYKFVYMAVLEHYIYGDTSDKSHLTSQHLK 300

Qy 296 ---VIPEPEHQIPPSQAPHPTEEKHHTQALSYS---- TNGNTSIPA 335
Db 301 KEYGHIRTKNHMKISDFEDDVARIHLTTKMAENYIDQSKFRDESFKG 348

RESULT 9
US-08-854-595-2
Sequence 2, Application US/08854595
Patent No. 6114140
GENERAL INFORMATION:
APPLICANT: Tonks, Nicholas K. and Zanke, Arne
TITLE OF INVENTION: Density Enhanced Protein Tyrosine Phosphatase
NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
ADDRESSEE: Marshall, O'Toole, Gerstein, Murray & Borun
STREET: 233 South Wacker Drive, Suite 6300
CITY: Chicago
STATE: Illinois
COUNTRY: United States of America
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/854,595
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/232,940
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Borun, Michael F.
REGISTRATION NUMBER: 25,417
REFERENCE/DOCKET NUMBER: 37866/1954
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312 474 6300
TELEFAX: 312-474-0448
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1337 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-854-595-2

Query Match 12.0%; Score 506.5; DB 3; Length 1337;
Best Local Similarity 39.0%; Pred. No. 1.5e-32;
Matches 115; Conservative 50; Mismatches 109; Indels 21; Gaps 8;

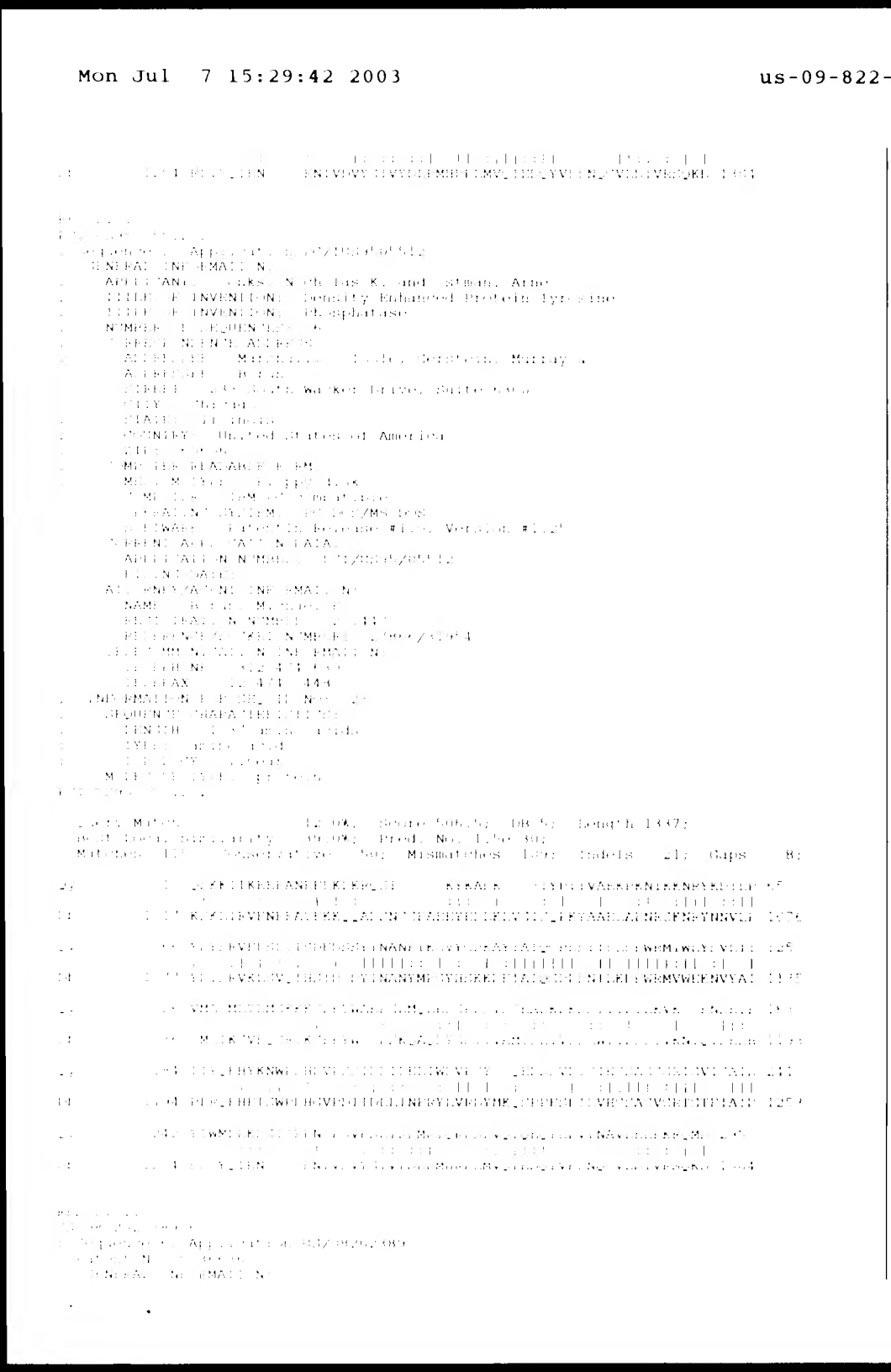
Qy 15 QSEKLIKKSEFANEFIELEPKYEKYKADKIYPFTVAERKQKNIKKNRYKDILP 69
Db 1017 KSKLIEVENPEAVEFKQQAAKSNLIIADVTPNDARVTVSLVFYAAFIAVSALEMSFLTDV 1076

Qy 70 YDYSRVELSEITEGGLNSYINANFIKGVYGPKAYIATQGPLSETIGDFWRMIWEYSVLII 129
Db 1077 YEIGSVKLDVVPGHGTGKRGFFPNIAPVFEATLSSIELPEYNASLRNVCKEWTAEVNNAS 1136

Qy 130 VMACMETEMGKEKCERYWAEIGEMQLIEGFEVSCEALKKKSGEIKELKNVKFNSEISITR 189
Db 1136 IMLTKCVEQGRTKCEEYWP PSKQAQEYGDILVAMETSLILVLPEWTIKMPIVKNNQNPSH 1195

Qy 190 TYQFHYKNWPDHDVPSSIDPFLELIWDVRCY--QEDESVPICIHCSAGCGRGVICATLV 247
Db 1196 PLRQFHFTSWPDHGVPDHPDLLINFRYLVRDYMKQSPPLSPIIVHCSAGVGRSGTFIAID 1255

Qy 248 YTWMLLKDGIIPEN-FSVFSLIREMRTQRPSLVQTQEQYEFLYQAVLELFRQMD 295



; APPLICANT: Freeman Jr., Robert M.
; APPLICANT: Piwnica, Jorge
; APPLICANT: Neel, Benjamin G.
; APPLICANT: Rosenberg, Robert D.
; TITLE OF INVENTION: IDENTIFICATION OF NOVEL TYROSINE
; TITLE OF INVENTION: PHOSPHATASES HAVING SH2 DOMAINS
; NUMBER OF SEQUENCES: 54
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Hamilton, Brook, Smith & Reynolds, P.C.
; STREET: Two Militia Drive
; CITY: Lexington
; STATE: MA
; COUNTRY: USA
; ZIP: 02173
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/202,389
; FILING DATE: 28-FEB-1994
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/983,926
; FILING DATE: 01 DEC 1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/829,141
; FILING DATE: 31 JAN-1992
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 07/723,112
; FILING DATE: 26 JUN-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Granahan, Patricia
; REGISTRATION NUMBER: 32,227
; REFERENCE/DOCKET NUMBER: BIH92-05MA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 861-6240
; TELEFAX: (617) 861-9540
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 595 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-08-202-389-6

Query Match 11.9%; Score 504.5; DB 1; Length 595;
Best Local Similarity 33.6%; Pred. No. 6.1e-31;
Matches 142; Conservative 72; Mismatches 126; Indels 61; Gaps 14;

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Db          121 KPPPAMDPTPLPPSLSTPYPEALKTYPTTVAEKPSNIKENRYKDILPYDQSRVELSDLISDL 300

Qy           21 KEFFAMEPITLPPSLSTPYPEALKTYPTTVAEKPSNIKENRYKDILPYDQSRVELSDLISDL 80

Db          301 KEEYEEPF---EQQSASW        DVAKKDQNRAKNRYGNILAYDHSRVILQPVEDDP 433

Qy           81 DSSYINANPIKGVYGPSATIATQGFLSTIPDLDWRMIWEYSVLIIVMACMEYEMGKKKCE 140

Db          434 SSLYINAWFIKGVYGPATIATQGFVPTTVYPPWPMIWQEQSACIVMVTRLVEVGFVKCY 493

Qy          141 RDWAEEGEMQLEEGPPSVSCEAFKKKSDYIIK--ILKVKFNSEIRTTQFHYKNWPDHDV 198

Db          494 KYWPDQDEV---YGDFKVTCVEMEPLAEYVVRTFTLERRGYNPIPFVKQFRFTGWPDHGV 550

Qy          199 PSSIDLILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTW-MLIKDGIIPENFS 257

Db          551 PSSIDLILELIWDVRCYQEDDSVPICIHCSAGCGRTGVICAIDYTWIMLIKDGIIPENFS 610

RESULT 13
US 08 087 244A 2
; Sequence 2, Application US/08087244A
; Patent No. 5863755
  GENERAL INFORMATION:
    APPLICANT: Schlessinger, Joseph
    APPLICANT: Sap, Jan M.
    APPLICANT: Ullrich, Axel
    APPLICANT: Vogel, Wolfgang
    APPLICANT: Fuchs, Miriam
    TITLE OF INVENTION: NOVEL RECEPTOR-TYPE PHOSPHOTYROSINE
    TITLE OF INVENTION: PHOSPHATASE-KAPPA
    NUMBER OF SEQUENCES: 11
    CORRESPONDENCE ADDRESS:
      ADDRESSEE: PENNIE & EDMONDS
      STREET: 1155 Avenue of the Americas
      CITY: New York
      STATE: New York
      COUNTRY: U.S.A.
      ZIP: 10036
    COMPUTER READABLE FORM:
      MEDIUM TYPE: Floppy disk
      COMPUTER: IBM PC compatible
      OPERATING SYSTEM: PC DOS/MS-DOS
      SOFTWARE: PatentIn Release #1.0, Version #1.25
    CURRENT APPLICATION DATA:
      APPLICATION NUMBER: US/08/087,244A
      FILING DATE: 01 JUL 1993
      CLASSIFICATION: 435
    ATTORNEY/AGENT INFORMATION:
      NAME: Coruzzi, Laura A.
      REGISTRATION NUMBER: 30,742
      REFERENCE/DOCKET NUMBER: 7683.042
    TELECOMMUNICATION INFORMATION:
      TELEPHONE: 212-790-9090
      TELEFAX: 212-869-8864/9741
      TELEX: 66141 PENNIE
  INFORMATION FOR SEQ ID NO: 2:
    SEQUENCE CHARACTERISTICS:
      LENGTH: 1439 amino acids
      TYPE: amino acid
      TOPOLOGY: linear
    MOLECULE TYPE: protein
US 08 087 244A 2

  Query Match              11.9%;  Score 502;  DB 2;  Length 1439;
  Best Local Similarity    29.5%;  Pred. No. 3.6e-30;
  Matches  138;  Conservative   77;  Mismatches  164;  Indels   88;  Gaps   17;

Qy           21 KEFFAMEPITLPPSLSTPYPEALKTYPTTVAEKPSNIKENRYKDILPYDQSRVELSDLISDL 80

Db          888 KEEYESPF---EQQSASW        DVAKKDQNRAKNRYGNILAYDHSRVILQPVEDDP 946

Qy           81 LSSYINANPIKGVYGPSATIATQGFLSTIPDLDWRMIWEYSVLIIVMACMEYEMGKKKCE 140
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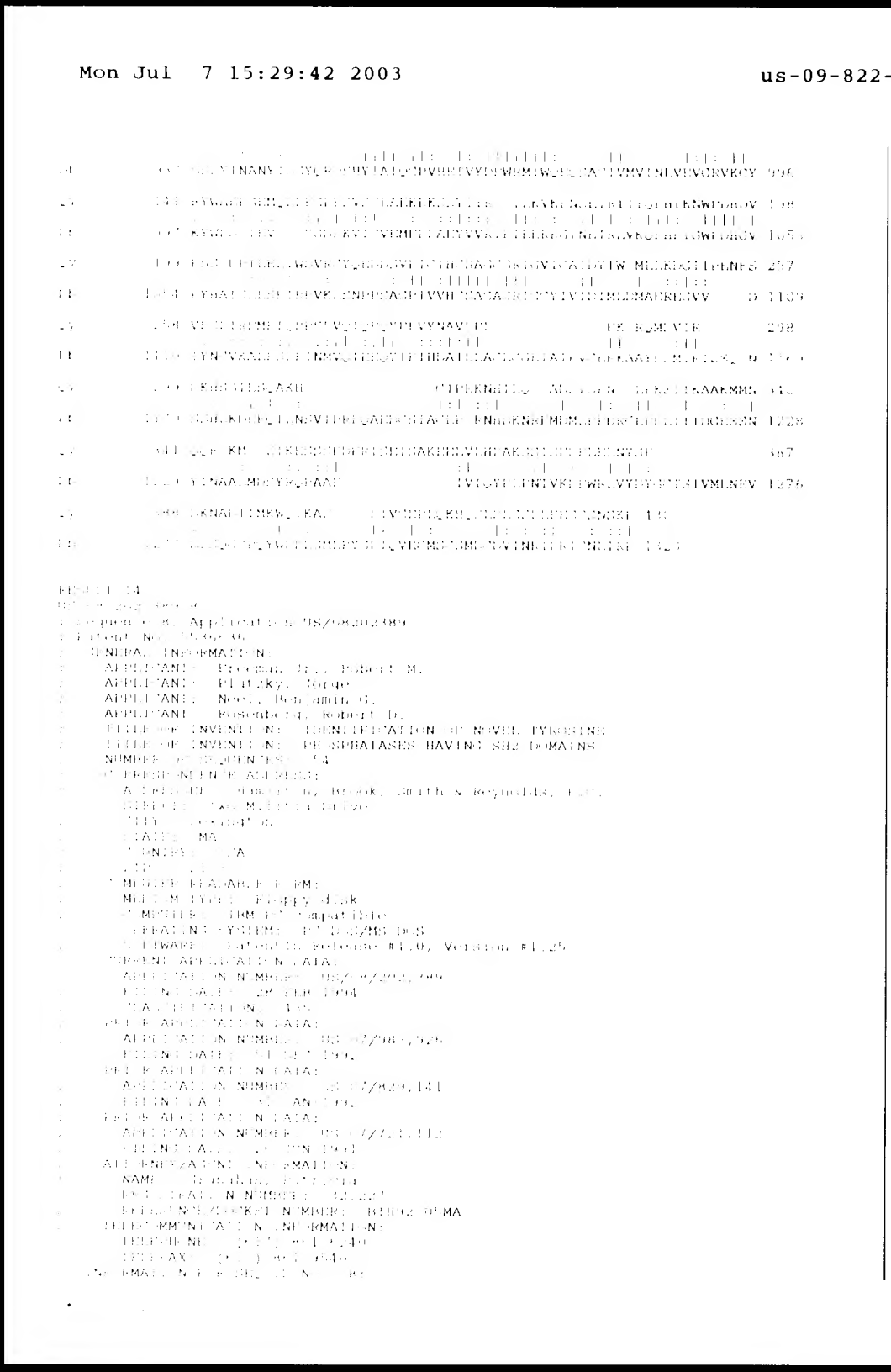

; SEQUENCE CHARACTERISTICS:
; LENGTH: 631 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
08-08-202 389-8

Query Match 11.9%; Score 501.5; DB 1; Length 631;
Best Local Similarity 32.1%; Pred. No. 1.1e-30;
Matches 342; Conservative 73; Mismatches 215; Indels 87; Gaps 18;

Qy 75 GGAPTTRPEEANEFLFLFRLGLEYRALPLCYFLVALPENIKENKEYFLGVLYSRVLQS 134
Db 249 GLEPLAKAGWRIDLSLRLRVF 290

Qy 75 LLISP LPSSLSANEIKS VIGP KAYIALGPLSKLLLPWRMIWEYSVLLVMA 128
Db 291 GKDSNIFGSGYINANYIKNGLLGTFENAKTFASQGCLRAIVNDFWQMAWQENSRVIVMI 350

Qy 129 GMEYEMGKEKCERYWAEFSFMGLEFGFKVSCEAEKRKSDYIETLEVK PNSE-TRII 185
Db 351 GREVEKGKNGKLVPYWPEVG-MQRAYGPYSVTNCGEHDTTEYKLRTLQVSPLDNGDLIRET 409

Qy 186 YQFHYKNWPDHDVPESVTPLLTLLRIWQVKCYQED--DSVPICIHCSAGCGRIGVICAIDYT 243
Db 410 WRYQVLSWFDMRVPSSPSSVLSFIRQVNQRQESLPHAGPIIVHCSAGIGRTGTFIVID 467

Qy 244 WMLLEKGIIPENDFGVFCL IEEMETYQKFSLVQTYQQYFLVYNAV EELFK 291
Db 468 -------MLMENISTKGLIDCDIDIQKTIQMVRAQRSGMVQTEAQYKFIYVAIAQFIETTK 520

Qy 292 PQMPVIPDKPSGCTESQAKHPIPPKNHTQAIGSYSPNFKSGTTKAAPPMNTSQKTKMLTKES 351
Db 521 KKLEVLQSQ-KGQESEYGNI----------IYPPAMKNAHAHAS------KISSKHKED 562

Qy 352 SSFDFRTSEISAKEELVLHPAKSSTSFDFLELNYSFDKNADTTMKWQTKAPPIVGEPLQK 411
Db 563 VYENLHIK--NKREE----------SEEAAVSPQGEEQGFP-- ---QF 593

Qy 412 HQSLDLGSLLFEGGSNSKPVNA 433
Db 594 EVS---GAVLRWPCLSPDPVEA 612

RESULT 15
US-08-018-129-5
; Sequence 5, Application US/08018129
; Patent No. 5589375
; GENERAL INFORMATION:
; APPLICANT: Ullrich, Axel
; APPLICANT: Vogel, Wolfgang
; TITLE OF INVENTION: PTP 1D: A NOVEL PROTEIN TYROSINE
; TITLE OF INVENTION: PHOSPHATASE
; NUMBER OF SEQUENCES: 19
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: PENNIE & EDMONDS
; STREET: 1155 Avenue of Americas
; CITY: New York
; STATE: New York
; COUNTRY: U.S.A.
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: 08/018,129
; FILING DATE: 19930216
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Mistrock, S. Leslie
; REGISTRATION NUMBER: 18,872

REFERENCE/APPLICANT NUMBER: 7683-017
TELEPHONE INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869 8864/8741
TELEX: 66141 PENNIE
CONTACT INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 593 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-018-129-5

Query Match 11.7%; Score 496; DB 1; Length 593;
Best Local Similarity 33.2%; Pred. No. 2.8e-30;
Matches 121; Conservative 67; Mismatches 122; Indels 50; Gaps 12;